

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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|------------------|---|--|
| Applicant | : | Ortega Mora et al. |
| Appl. No. | : | 10/581,801 |
| Filed | : | March 12, 2007 |
| For | : | USE OF THE GENE NcSAG4 FOR THE DIAGNOSIS AND PREVENTION OF NEOSPOROSIS AND AS A MARKER FOR ANALYSIS OF THE PATHOGENESIS |
| Examiner | : | Navarro, Albert Mark |
| Group Art Unit | : | 1645 |
| Confirmation No. | : | 1935 |

DECLARATION UNDER 37 C.F.R §1.132**Mail Stop Amendment**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

1. I, Luis Miguel Ortega Mora, am an expert in the fields of animal parasitology and vaccine development.

2. I have extensive experience in the field of Veterinary Sciences. My Curriculum Vitae is attached herewith as Exhibit A.

3. Production of the recombinant protein pRNcSAG4 (SEQ ID NO 15) is detailed in the Specification as filed. The recombinant protein comprises amino acids 29-148 of the NcSAG4 protein, as described in the Specification as filed. Thus, recombinant protein pRNcSAG4 corresponds to the amino acid sequence of the mature protein, but it lacks both N-terminal and C-terminal signal peptides, and it including a 6-his tag, a T7 tag and an enterokinase recognition site (see Specification as Filed, Example 2). A schematic representation of the recombinant protein pRNcSAG 4 is shown in Figure 3 of the Specification, panel C.

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4. The conservation of the antigenic characteristics of modified polypeptide (pRNcSAG4) is demonstrated with the specific recognition of this antigenic sequence by sera from cattle chronically infected by *Neospora caninum* and calves congenitally infected, when the bradyzoite stage plays a major role during the infection. This stage-specific expression of NcSAG4 is similar to its ortholog in the closely related apicomplexan *Toxoplasma gondii* (Example 3). Immunogenicity of pRNcSAG4 has also been confirmed after immunization of mice with this modified polypeptide for production of polyclonal mouse anti-NcSAG4 serum. This serum reacted against *N. caninum* protein extracts by western blot analysis confirming again the conservation of its immunogenicity (Fernández-García et al., 2006. Mol Biochem Parasitol. 146, 89-97).

5. Furthermore, two different truncated NcSAG4 proteins (SEQ ID NO: 10) have been recently cloned in our laboratory. While one of them carries a glycosylphosphatidylinositol (gpi) anchor, in the other it was removed. A comparative study about immunogenicity showed similar recognition of both isoforms by bovine serum samples (Figure 1). A polyclonal serum generated against rNcSAG4 with gpi anchor recognised the pRNcSAG4 without gpi anchor as well.

6. Finally, we present preliminary results about protection against murine neosporosis induced by pRNcSAG4. In this work, there was a statistically significant delay in mortality comparing with a non-immunized group, in spite of the fact that neonates from immunized animals finally succumbed to neosporosis. This delay was also associated with a humoral immune response against pRNcSAG4 in dams during pre-challenge phase.

7. Immune response and protection against neosporosis generated by recombinant protein rNcSAG4 were evaluated in mice and their progeny. Recombinant protein pRNcSAG4 was produced as poly-histidine-tagged fusion protein and purified in HisTrap HP columns (GE Health-care Life Biosciences) as previously described in the patent (Example 2). Purified pRNcSAG4 was emulsified with Titermax® Gold Adjuvant (Sigma) according to the manufacturer's instructions, and subcutaneously inoculated into female BALB/c mice in three different doses at three week-intervals (group 1). Another group of mice (group 2) was inoculated with an emulsion of PBS with Titermax Gold Adjuvant, whereas other two (groups 3 and 4) were inoculated with PBS. 24 hours after third immunization (pre-challenged phase). Humoral immune response against pRNcSAG4 was studied by immunoblot in serum samples

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from 5 mice of each group. Mice were mated and groups 1, 2 and 3 were challenged with 2×10^6 live tachyzoites of *Neospora caninum* at second period of pregnancy. Group 4 was maintained unchallenged as negative control. Dams and their pups were maintained until day 30 post-partum (PP). Clinical signs of neosporosis and mortality were analysed during this period of time. The log-rank statistical test was applied to compare the survival curves (Bland and Altman, 2004).

8. An immune response against pRNcSAG4 was observed during the pre-challenged phase. Four of five mice immunized with an emulsion between pRNcSAG4 and Titermax® Gold Adjuvant (group 1) generated specific antibodies against pRNcSAG4. Absence of specific antibodies was observed in the other groups (Figure 2). In a parallel experiment in which we also studied the protection induced by the recombinant protein rNcGRA7 of *N. caninum*, the inoculation of a mix of both proteins promoted the specific humoral response against pRNcSAG4 detected by immunoblot (Figure 2).

9. All pups that showed clinical signs of neosporosis died during the study. Signs observed ranged among delay growth, less hair coat, paralysis, walking in circles and inactivity. Although neonatal mortality rates were rather similar between groups immunized with pRNcSAG4 + adjuvant (group 1; 98.2%) and unimmunized and challenged (group 3; 100%), when survival curves were analyzed, the percent of survival of group 1 was greater than that of unimmunized-challenged group ($P < 0.0014$, Log-rank test) (Figure 3). Mice immunized with the adjuvant only (group 2) also showed high mortality (93.8%) and no differences in percent of survival were observed when compared to unimmunized-challenged group. Negative control group showed 0% of mortality (Figure 3).

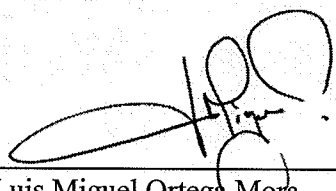
10. In conclusion, modified NcSAG4 proteins including: a) truncation of N- and C- terminal signal peptides, and b) optional attachment of a gpi anchor maintain the antigenic and immunogenic characteristics of full-length, mature NcSAG4 protein.

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11. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or patent issuing therefrom.

Dated: 05/12/2008

By:



Prof. Luis Miguel Ortega Mora

Figure 1. Western blot of rNcSAG4 (with and without the gpi anchor fragment) with serum samples from *N. caninum* infected bovines.

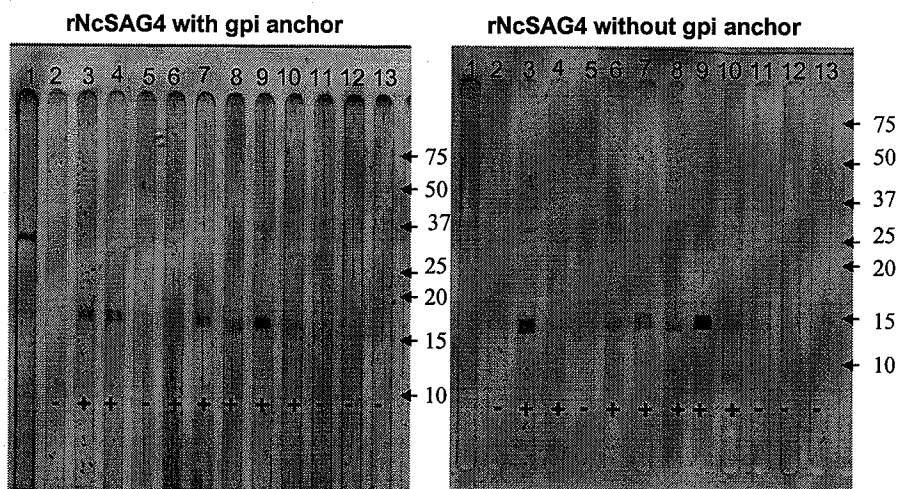
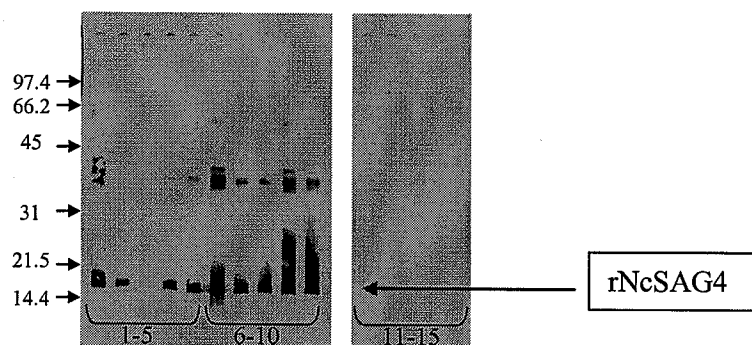
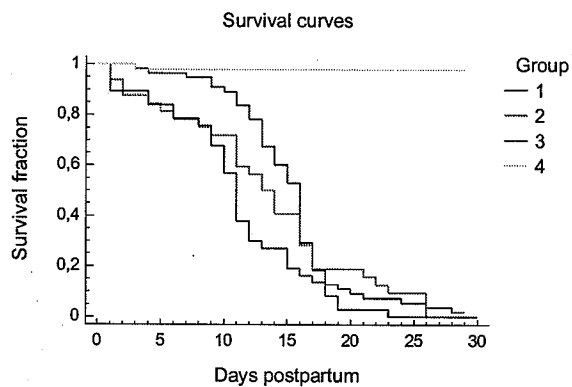


Figure 2: Immunoblot of rNcSAG4 with serum samples from mice immunized with rNcSAG4 +adjuvant (lanes 1 to 5), mice immunized with a mix of rNcSAG4 and rNcGRA7+adjuvant (lanes 6 to 10) and mice immunized only with adjuvant (lanes 11 to 15). Note that the immunization with rNcSAG4 together rNcGRA7 increases the humoral immune response against rNcSAG4.



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Figure 3: Kaplan-Meier survival curves for neonates born from dams immunized with rNcSAG4+adjuvant (group 1), with only adjuvant (group 2), unimmunized-challenged mice (group 3) and negative control mice (group 4).



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Exhibit A

Curriculum vitae

Number of pages contained: 67

Name: **Luis Miguel Ortega Mora**

Date: November 2008

Signed:

Last name: ORTEGA MORA

DNI: 11794.999

Date of Birth : 10/16/1963

First names: LUIS MIGUEL

Sex: Male

Current professional position

Organization: COMPLUTENSE UNIVERSITY OF MADRID

Faculty: VETERINARY SCIENCES

Department: ANIMAL HEALTH

Address: Avenida Puerta de Hierro s/n, Ciudad Universitaria, 28040 MADRID

Work phone: 34 – 91 394 40 69 – 91 394 40 98

Fax: 34 – 91 394 39 08 y 91-394 40 98

E-mail: luis.ortega@vet.ucm.es

Specialization (UNESCO codes): 310907

Professional category: Full university professor

Starting date: 01-2008

Administrative position: Staff

Contract: full-time

Research activities

Brief description of the specialization and current research activities, using keywords.

Specialization: Animal Health (Parasitic diseases)

Research activities:

Parasitic diseases of domestic ruminants:

- 1 Digestive (cryptosporidiosis) and reproductive protozoosis (neosporosis, toxoplasmosis y trichomonosis): epidemiology, patogeny, immune response, diagnosis, immunoprophylaxis.

Other research activities:

- 1 Control of gastrointestinal nematodiasis of ruminants grazing bioactive plants.
- 2 Transmissible diseases in antarctic phocids and otariids.
- 3 Transmissible diseases in south american camelids.

Advanced Education

| Advanced degree | Institution | Date |
|---|--|------|
| Bachelor's degree in Veterinary Sciences | Faculty of Veterinary Sciences. Complutense University of Madrid | 1986 |
| Master of Science (MSc) in Veterinay Sciences | Faculty of Veterinary Sciences. Complutense University of Madrid | 1986 |
| Ph.D. in Veterinary Sciences | Faculty of Veterinary Sciences. Complutense University of Madrid | 1991 |

Prior professional scientific activities

| Position | Institution | Dates |
|--|--|---|
| Pre-doctoral grant (Program for training Investigators from the Comunidad Autónoma de Madrid) | Faculty of Veterinary Sciences. Complutense University of Madrid | 06-87 to 12-87 |
| Pre-doctoral grant (Program for training Investigators from the Ministry of Education and Science) | Faculty of Veterinary Sciences. Complutense University of Madrid | 01-88 to 10-90 |
| University assistant | Faculty of Veterinary Sciences. University of León. | 11-90 to 03-95 |
| Post-doctoral grant (Program for training Investigators in a foreign country) | Moredun Research Institute, Edinburgh, Scotland | 10-91 to 9-92 6-93 to 8-93 |
| University Professor (Service Commission) | Faculty of Veterinary Sciences. University of León. | 03-95 to 09-95 |
| University Professor | Faculty of Veterinary Sciences. Complutense University of Madrid | 10-95 to 01-08 Part-time from 2-98 to 9-98 |
| Director of Research and Development | Proinserga, S.A. | 2-98 to 4-98 |
| Deputy director of Animal Health Department | Faculty of Veterinary Sciences. Complutense University of Madrid | 10-03 to 5-06 |
| Full university professor | Faculty of Veterinary Sciences. Complutense University of Madrid | 01-08 to present |

Languages (F = fair, G = good, C = correctly)

| Language | Speak | Read | Write |
|----------|-------|------|-------|
| English | G | C | C |
| French | F | G | G |

2. Participation in research projects supported by public entities. (national and/or international)

2.1 International Projects

2.1.1 "VACCINES AGAINST ANIMAL COCCIDIOSES".

(Ref. COST-Action 820).

Funding Entity: European Co-operation In Scientific and Technical Research (COST). European Union, RTD Framework Programme.

Participating Entities: Diverse entities from various countries of the European Union.

Length: from 1994 to 2001.

Main Researcher(chairman): Dr. Martin Shirley.

Position: Spanish representative on the Management Committee.

Number of Participating Researchers: various investigators from various European Union countries.

2.1.1 "DIAGNOSIS, EPIDEMIOLOGY AND PREVENTION OF *Neospora caninum* ASSOCIATED BOVINE ABORTIONS"

(REF. QLK2-CT-2000-01050)

Funding Entity: European Union, 5th RTD Framework Programme.

Participating Entities: Animal Health Dept. of the Complutense University of Madrid and six entities from five other countries of the European Union.

Length: from 2001 to 2004.

Main Researcher: Dr. Luis M. Ortega Mora (from the Spanish project).

Number of Participating Researchers: several investigators of seven groups from six countries of the European Union.

Total Funding: 1,119,631 €.

Amount funded as a subproject: 230,000 €.

2.1.2 "PROTOZOAL REPRODUCTION LOSSES IN FARM RUMINANTS".

(REF. COST-action 854)

Funding Entity: European Co-operation in Scientific and Technical Research, European Union RTD Framework Programme.

Participating Entities: several entities from various countries of the European Union.

Length: from 2002 to 2006.

Main Researcher (chairman): Dr. Franz J. Conraths.

Position: Spanish representative on the Management Committee.

2.1.3 "APICOMPLEXA BIOLOGY IN THE POST-GENOMIC ERA".

(REF. COST-action 857)

Funding Entity: European Co-operation in Scientific and Technical Research, European Union RTD Framework Programme.

Participating Entities: several entities from various countries of the European Union.

Length: from 2003 to 2007.

Main Researcher (chairman): Dr. Fiona Tomley.

Position: Spanish representative on the Management Committee.

2.1.4 "NEOSPOROSIS BOVINA: PREVALENCIA, TRANSMISIÓN Y VARIABILIDAD BIOLÓGICA ENTRE AISLADOS".

(PHB2003-0004-PC)

Funding Entity: Ministerio de Educación y Ciencia. Programa hispano-brasileño de cooperación Interuniversitaria.

Participating Entities: Animal Health Dept. of the Complutense University of Madrid, Parasitology Department of the Federal University of Goiás.

Length: from 2004 to 2007.

Main Researcher: Dr. Luis Ortega Mora.

- 2.1.5 "EUROPEAN NETWORK OF EXCELLENCE FOR ZOOSES RESEARCH (MED-VET-NET)".
(FOOD-CT-2004-506122)
Funding Entity: European Union, 6th RTD Framework Programme.
Participating Entities: Animal Health Dept. of the Complutense University of Madrid and sixteen entities from sixteen countries of the European Union.
Length: from 2004 to 2009.
Main Researcher: Dr. Lucas Domínguez in Complutense University of Madrid.
Position: Investigator.
Total Funding : 14,400,000 €.

2.2 National Projects

- 2.2.1 "ESTUDIO SOBRE LA EPIZOOTIOLOGÍA Y ETIOLOGÍA DE LAS INFECCIONES GASTROENTÉRICAS DE LOS ANIMALES JÓVENES (OVINOS Y CAPRINOS)".
(REF. PA86-0216-C02-01).
Funding Entity: Inter-Ministerial Committee of Science and Technology of Spain.
Participating Entities: Animal Health Dept. of the Complutense University of Madrid and Animal Health Dept. of the University of León.
Length: from 1988 to 1990.
Main Researcher: Dr. Francisco A. Rojo Vázquez.
Position: Investigator.
Number of Participating Researchers: eight.
- 2.2.2 "RESPUESTA INMUNE HUMORAL EN LA CRYPTOSPORIDIOSIS OVINA. EFECTO PROTECTOR Y APLICACIÓN DIAGNÓSTICA".
(REF. GAN89-0332).
Funding Entity: Inter-Ministerial Committee of Science and Technology of Spain.
Participating Entities: Animal Health Dept. of the Complutense University of Madrid and Animal Health Dept. of the University of León.
Length: from 1990 to 1992.
Main Researcher: Dr. Mercedes Gómez Bautista.
Position: Investigator.
Number of Participating Researchers: five.
Amount funded: 6,771,600 ptas.
- 2.2.3 "CRYPTOSPORIDIOSIS DE RUMIANTES: DESARROLLO DE NUEVOS MÉTODOS DE DIAGNÓSTICO MEDIANTE DETECCIÓN DE ANTÍGENOS PARASITARIOS EN HECES Y SU APLICACIÓN EN LA EPIDEMIOLOGÍA".
(REF. AGF92-0003-CP).
Funding Entity: Inter-Ministerial Committee of Science and Technology of Spain.
Participating Entities: Animal Health Dept. of the University of León.
Length: from 1993 to 1994.
Main Researcher: Dr. Francisco A. Rojo Vázquez.
Position: Investigator.
Number of Participating Researchers: seven.
Amount funded: 4,965,840 ptas.
- 2.2.4 "EXPLOTACIÓN DE CABRAS CACHEMIRA EN SPAIN".
(REF. SC93-193-C1).
Funding Entity: Agrarian and Food Sectorial Scientific Program from Ministry of Agriculture, Fishing and Food of Spain..
Participating Entities: INIA, SERIDA, Animal Health Dept. of the University of León.
Length: from 1994 to 1997.

Main Researcher: Dr. Javier Martínez Vassallo.
Position: Investigator.
Number of Participating Researchers: eight.
Amount funded: 83,619,000 ptas. (33,274,000 ptas. as a subproject).

2.2.5 "CRIPTOSPORIDIOSIS DE RUMIANTES: CARACTERIZACIÓN DE AISLADOS DE *Cryptosporidium parvum* Y DE LA RESPUESTA INMUNE FRENTE A LA INFECCIÓN EN LLAMAS Y ALPACAS. IDENTIFICACIÓN, EXPRESIÓN Y PRODUCCIÓN DE PROTEÍNAS DE *Cryptosporidium parvum* CON IMPORTANCIA EN EL INMUNODIAGNÓSTICO".

Funding Entity: Scientific Cooperation Program with Ibero-America. Joint scientific Projects between Ministry of Education and Science and International Cooperation Section from Ministry of Foreign Affairs.

Participating Entities: Animal Health Dept. of the University of León, Spain and Animal Health and public health Dept. of the National Major University of San Marcos, Lima, Perú.

Length: from 1994 to 1996.

Main Researcher: Dr. Francisco A. Rojo Vázquez.

Position: Investigator.

Number of Participating Researchers: ten.

Amount funded: 2,500,000 ptas.

2.2.6 "CRIPTOSPORIDIOSIS DE RUMIANTES: IDENTIFICACIÓN, EXPRESIÓN Y PRODUCCIÓN DE PROTEÍNAS RECOMBINANTES DE *Cryptosporidium parvum*, CON IMPORTANCIA EN EL INMUNODIAGNÓSTICO E INMUNOPROFILAXIS".
(REF. AGF95-0507).

Funding Entity: Inter-Ministerial Committee of Science and Technology of Spain.

Participating Entities: Animal Health Dept. of the University of León, Animal Health Dept. of the Complutense University of Madrid and Regional Ministry of Agriculture and livestock of Castilla y León. Length: from 1995 to 1998.

Main Researcher: Dr. Francisco A. Rojo Vázquez.

Position: Investigator.

Number of Participating Researchers: nine.

Amount funded: 16,467,000 ptas.

2.2.7 "LA NEOSPOROSIS BOVINA: DESARROLLO DE NUEVAS TÉCNICAS DE DIAGNÓSTICO Y SU APLICACIÓN A LA EPIDEMIOLOGÍA Y AL CONTROL".
(REF. AGF98-0804-C01).

Funding Entity: Ministry of Education and Culture of Spain.

Participating Entities: Animal Health Dept. of the University of León, Animal Health Dept. of the Complutense University of Madrid.

Length: from 1998 to 2001.

Main Researcher: Dr. Luis M. Ortega Mora.

Number of Participating Researchers: seven.

Amount funded: 13,260,000 ptas. (8,430,000 ptas. for the subproject of the Complutense University of Madrid).

2.2.8 "ESTUDIO DE LOS PRINCIPALES PROBLEMAS REPRODUCTIVOS DE ETIOLOGÍA PARASITARIA EN LOS CAMÉLIDOS SUDAMERICANOS DE LOS ANDES PERUANOS".
(REF. PR158/01-10056).

Funding Entity: Scientific Cooperation Program with Ibero-America. Joint scientific Projects between Ministry of Education and Science and International Cooperation Section from Ministry of Foreign Affairs.

Participating Entities: Animal Health Dept. of the University of León, Animal Health Dept. of the Complutense University of Madrid, Spain, National Major University of San Marcos, Lima, Peru..

Length: from 2000 to 2001.

Main Researcher: Dr. Luis M. Ortega Mora.

Number of Participating Researchers: four In the Spanish part, five in the Peruvian.

Amount funded: 2,000,000 ptas.

2.2.9 "ESTUDIO DE LA INFECCIÓN POR *Neospora caninum* EN SEMENTALES BOVINOS: DETECCIÓN, PREVALENCIA Y ELIMINACIÓN SEMINAL".

(REF. AGL2000-0112-P4-03).

Funding Entity: Ministry of Science and Technology of Spain.

Participating Entities: Animal Health Dept. of the Complutense University of Madrid; NEIKER; Aberekin.

Length: from 2001 to 2003.

Main Researcher: Dr. Luis M. Ortega Mora.

Amount funded: 146,911.40 €. (71,352.16 € for the subproject of the Complutense University of Madrid).

2.2.10 "PATOGENIA DE LA NEOSPOROSIS BOVINA EN EL FETO Y EN MODELOS EXPERIMENTALES. ESTUDIO DE LAS VARIACIONES INTRAESPECÍFICAS EN LA VIRULENCIA".

(REF. AGL2001-1362).

Funding Entity: Ministry of Science and Technology of Spain.

Participating Entities: Animal Health Dept. of the Complutense University of Madrid; NEIKER.

Length: from 2001 to 2004.

Main Researcher: Dr. Luis M. Ortega Mora.

Amount funded: 106,355.09 €.

2.2.11 "PATRÓN DE ELIMINACIÓN DE *Neospora caninum* EN EL SEMEN DE TOROS CON INFECCIÓN AGUDA Y CRÓNICA. EVALUACIÓN DEL SEMEN COMO VÍA DE TRANSMISIÓN".

(REF. PTR1995-0780.OP)

Funding Entity: Ministry of Education and Science of Spain.

Participating Entities: Animal Health Dept. of the Complutense University of Madrid; ASEAVA; NEIKER; SERIDA.

Length: from 2004 to 2007.

Main Researcher: Dr. Luis M. Ortega Mora.

Amount funded: 322,138 €.

2.2.12 "DESARROLLO DE VACUNAS DIRIGIDAS FRENTE A LA INFECCIÓN POR *Neospora caninum* EN EL GANADO BOVINO".

(REF. PTR1995-0777.OP)

Funding Entity: Ministry of Education and Science of Spain.

Participating Entities: Animal Health Dept. of the Complutense University of Madrid; Hipra Laboratories S.A.

Main Researcher: Dr. Luis M. Ortega Mora.

Amount funded: 170,000 €.

2.2.13 "UTILIDAD DIAGNÓSTICA Y VACUNAL DE LOS ANTÍGENOS INMUNODOMINANTES P17 Y SAG4 DE *Neospora caninum*".

(REF. AGL2004-02529)

Funding Entity: Ministry of Education and Science.

Participating Entities: Animal Health Dept. of the Complutense University of Madrid.

Length: from 2004 to 2007.

Main Researcher: Dr. Luis M. Ortega Mora.

Amount funded: 162,100 €.

2.2.14 "LOS ROEDORES COMO RESERVORIOS EN SISTEMAS GANADEROS DE DEHESA (FAU2006-00012-C02-01)

Funding Entity: National Program of Agro-alimentary Resources and Technology, National Institute of Agro-alimentary Research and Technology (INIA).

Length: from 2007 to 2010

Main Researcher and Responsible for subproject 1: Dr. D. Ignacio Ferre Pérez

Responsible Researcher for subproject 2: Silvia Herrera León

Amount funded: 70,013 €.

2.2.15 DESARROLLO DE VACUNAS FRENTE A LA NEOSPOROSIS BOVINA: IDENTIFICACIÓN DE NUEVAS DIANAS VACUNALES Y MEJORA DE LOS SISTEMAS DE ADYUVANTACIÓN. (REF. AGL2007-60132/GAN).

Funding Entity: Ministry of Education and Science

Participating Entities: Animal Health Dept. of the Complutense University of Madrid.
Length: from 2007 to 2010
Main Researcher: Dr. D. Luis M. Ortega Mora
Number of Participating Researchers: five
Amount funded: 147,000 €.

2.3 –Regional & Local Projects

- 2.3.1 **"PRINCIPALES CAUSAS DE MORTALIDAD EN CORDEROS RECIÉN NACIDOS EN LA PROVINCIA DE LEÓN CON ESPECIAL REFERENCIA A LA CRIPTOSPORIDIOSIS".**
Funding Entity: Joint Committee between Provincial Council of León and University of León, Spain.
Participating Entities: Animal Health Dept. of the University of León.
Length: 1991.
Main Researcher: Dr. Francisco A. Rojo Vázquez.
Position: Investigator.
Number of Participating Researchers: six.
Amount funded: 300,000 ptas.
- 2.3.2 **"PRINCIPALES CAUSAS DE MORTALIDAD EN CORDEROS RECIÉN NACIDOS EN LA PROVINCIA DE LEÓN, CON ESPECIAL REFERENCIA A LA CRIPTOSPORIDIOSIS Y DIARREAS VÍRICAS".**
Funding Entity: Joint Committee between Provincial Council of León and University of León, Spain .
Participating Entities: Animal Health Dept. of the University of León.
Length: 1992.
Main Researcher: Dr. Francisco A. Rojo Vázquez.
Position: Investigator.
Number of Participating Researchers: seven.
Amount funded: 600,000 ptas.
- 2.3.3 **"SANEAMIENTO DE LA CABAÑA OVINA Y CAPRINA DE LA PROVINCIA DE LEÓN. ESTUDIO DE LAS ENFERMEDADES MÁS IMPORTANTES Y PROPUESTA PARA SU CONTROL".**
Funding Entity : Provincial Council of León, Spain .
Participating Entities: Animal Health Dept. of the University of León.
Length: from 1993 to 1994.
Main Researcher: Dr. Francisco A. Rojo Vázquez.
Position: Investigator.
Number of Participating Researchers: nine.
Amount funded: 4,500,000 ptas.
- 2.3.4 **"PROCESOS INFECTOCONTAGIOSOS Y PARASITARIOS DE LOS RUMIANTES SILVESTRES DE LAS RESERVAS NACIONALES DE LEÓN. ESTUDIOS EPIZOOTIOLÓGICOS".**
(REF. LE 01/93).
Funding Entity: Council of Castilla y León, Spain.
Participating Entities: Animal Health Dept. of the University of León.
Length: from 1994 to 1995.
Main Researcher: Dr. Pedro Rubio Nistal.
Position: Investigator.
Number of Participating Researchers: eight.
*Amount funded: 2.084,000 ptas.
- 2.3.5 **"EVALUACIÓN DEL IMPACTO SANITARIO DE LOS NUEVOS SISTEMAS DE MANEJO EN LA POBLACIÓN DE VICUÑAS DEL PERÚ".**
Funding Entity: Projects of Cooperation for Development.. Complutense University of Madrid.
Participating Entities: Animal Health Dept. of the Complutense University of Madrid, Spain, Faculty of Veterinary Medicine of National Major University of San Marcos, Lima, Peru ; and Coordinating Committee for Research and Development of South-American Camelids (CONOPA).

Length: from 2005 to 2006.
Main Researcher: Dr. Luis M. Ortega Mora.
Amount funded: 34,000 €.

2.3.6 "CARACTERIZACIÓN DE UN AISLADO ESPAÑOL DE *Besnoitia besnoiti*. IDENTIFICACIÓN DE ANTÍGENOS INMUNODOMINANTES DE INTERÉS DIAGNÓSTICO".

Funding Entity: Research Projects SANTANDER/COMPLUTENSE.
Participating Entities: Animal Health Dept. of the Complutense University of Madrid.
Length: from 2006 to 2007.
Main Researcher: Dr. Luis Miguel Ortega Mora.
Number of Participating Researchers: three.
Amount funded: 10,000€.

2.3.7 "PROGRAMA DE CREACIÓN Y CONSOLIDACIÓN DE GRUPOS DE INVESTIGACIÓN: GRUPO SALUVET (SALUD VETERINARIA Y ZONOSIS)".

Funding Entity: Contract Program-IV Regional Research Plan.
Participating Entities: Grupo SALUVET.
Length: 2006.
Main Researcher: Dr. Luis Miguel Ortega Mora.
Number of Participating Researchers: nine.
Amount funded: 20,790€.

2.3.8 PROGRAMA DE CREACIÓN Y CONSOLIDACIÓN DE GRUPOS DE INVESTIGACIÓN: GRUPO SALUVET (SALUD VETERINARIA Y ZONOSIS)".

Funding Entity: Contract Program-IV Regional Research Plan.
Participating Entities: SALUVET Group.
Length: 2007.
Main Researcher: Dr. Luis Miguel Ortega Mora.
Number of Participating Researchers: nine.
Amount funded: 20,050€.

2.3.9 PROGRAMA DE CREACIÓN Y CONSOLIDACIÓN DE GRUPOS DE INVESTIGACIÓN: GRUPO SALUVET (SALUD VETERINARIA Y ZONOSIS)".

Funding Entity: Contract Program-IV Regional Research Plan.
Participating Entities: SALUVET Group.
Length: 2008.
Main Researcher: Dr. Luis Miguel Ortega Mora.
Number of Participating Researchers: nine.
Amount funded: 16,391.25€.

2.4 - Integrated and complementary actions

2.4.1 "DESARROLLO DE TÉCNICAS PARA EL DIAGNÓSTICO DE LA INFECCIÓN POR *Neospora* sp. EN RUMIANTES DOMÉSTICOS".

(Integrated Action REF. HB 1996-0173).
Funding Entity: Program of Integrated Actions of Scientific and Technic Research between Spain and UK. Ministry of Education and Science of Spain.
Participating Entities: Animal Health Dept. of the Complutense University of Madrid; Animal Health Dept. of the University of León (Spain) and Moredun Research Institute (Pathology Division), Edinburgh, Scotland.
Length: from 01/04/1997 to 31/03/1998.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of Participating Researchers: six.
Amount funded: 185,000 ptas.

- 2.4.2 **"LA NEOSPOROSIS DEL GANADO BOVINO: EPIDEMIOLOGÍA Y RESPUESTA INMUNE EN EL HOSPEDADOR".**
(Integrated Action REF. HB 1997-0167).
Funding Entity: Program of Integrated Actions of Scientific and Technic Research between Spain and UK. Ministry of Education and Science of Spain.
Participating Entities: Animal Health Dept. of the Complutense University of Madrid; Animal Health Dept. of the University of León (Spain) and Moredun Research Institute (Pathology Division), Edinburgh, Scotland.
Length: from 01/04/1998 to 31/03/1999.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of Participating Researchers: nine.
Amount funded: 140,000 ptas.
- 2.4.3 **"DIAGNOSIS, EPIDEMIOLOGY AND PREVENTION OF *Neospora caninum* ASSOCIATED BOVINE ABORTIONS".**
(Complementary Action REF. AGL2001-4784-E-Nº10880)
Funding Entity: Ministry of Science and Technology.
Participating Entities: Animal Health Dept. of the Complutense University of Madrid and six other entities from five countries of the European Union.
Length: from 2001 to 2004.
Main Researcher: Dr. Luis M. Ortega Mora.
*Number of Participating Researchers: diverse investigators from seven groups and six countries of the European Union.
Amount funded: 16,000 €.
- 2.4.4 **"PRESENCIA DE PARASITOS GASTROINTESTINALES EN FÓCIDOS Y OTÁRIDOS EN ISLA DECEPCIÓN".**
(Complementary Action REF. CGL2004-22025-E)
Funding Entity: Ministry of Education and Science.
Participating Entities: Animal Health Dept. of the Complutense University of Madrid.
Length: from 2005 to 2006.
Main Researcher: Dr. Luis Ortega Mora.
Amount funded: 17,800 €.
- 2.4.5 **"PRESENCIA DE AGENTES INFECCIOSOS Y PARASITARIOS EN FÓCIDOS Y OTÁRIDOS EN ISLA DECEPCIÓN".**
(Complementary Action REF. CGL2005-25073-E/ANT)
Funding Entity: Ministry of Education and Science.
Participating Entities: Animal Health Dept. of the Complutense University of Madrid.
Length: from 2006 to 2007.
Main Researcher: Dr. Luis Ortega Mora.
Amount funded: 10,000 €.
- 2.4.6 **"ORGANIZACIÓN DE UN SEMENARIO INTERNACIONAL COMPLUTENSE COST-854: 2006 DIAGNOSTIC WORKSHOP ON PROTOZOAL ABORTIONS IN FARM RUMINANTS".**
(Complementary Action REF. AGL2006-26034-E/GAN)
Funding Entity: Ministry of Science and Technology.
Participating Entities: SALUVET Group.
Main Researcher: Dr. Luis Ortega Mora.
Length: 2006.
Amount funded: 4,000 €.

3. Scientific-Technical Publications or Documents

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| KEY: B = complete book, CH = chapter of book, A = article, R = "review", E = editor, S = Restricted Scientific-Technical document .) |
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3.1 Publications in relation to research

3.1.1 In journals included in the Science Citation Index

- 3.1.1.1 Author/s: L.M. ORTEGA MORA, M. GÓMEZ BAUTISTA, F.A. ROJO VÁZQUEZ.
Title: "The acid phosphatase activity and morphological characteristics of *Dipetalonema dracunculoides* (Cobbold, 1870) microfilariae".
In: *Veterinary Parasitology*, 1989, 33: 187-190. (A).
- 3.1.1.2 Author/s: L.M. ORTEGA MORA, M. GÓMEZ BAUTISTA, F.A. ROJO VÁZQUEZ, A. RÓDENAS, J. GUERRERO.
Title: "A survey of the prevalence of canine filariasis in Spain".
In: *Preventive Veterinary Medicine*, 1991, 11: 63-68. (A).
- 3.1.1.3 Author/s: L.M. ORTEGA MORA, J.M. TRONCOSO, F.A. ROJO VÁZQUEZ, M. GÓMEZ BAUTISTA.
Title: "Cross-reactivity of polyclonal serum antibodies generated against *Cryptosporidium parvum* oocysts".
In: *Infection and Immunity*, 1992, 60: 3442-3445. (A).
- 3.1.1.4 Author/s: L.M. ORTEGA MORA, J.M. TRONCOSO, F.A. ROJO VÁZQUEZ, M. GÓMEZ BAUTISTA.
Title: "Serum antibody responses in lambs naturally and experimentally infected with *Cryptosporidium parvum*".
In: *Veterinary Parasitology*, 1993, 50: 45-54. (A).
- 3.1.1.5 Author/s: L.M. ORTEGA MORA, J.M. TRONCOSO, F.A. ROJO VÁZQUEZ, M. GÓMEZ BAUTISTA.
Title: "Identification of *Cryptosporidium parvum* oocyst/sporozyte antigens by infected and immunized lambs".
In: *Veterinary Parasitology*, 1994, 53: 159-163. (A).
- 3.1.1.6 Author/s: L.M. ORTEGA MORA, S.E. WRIGHT.
Title: "Age-related resistance in ovine cryptosporidiosis: patterns of infection and humoral immune response".
In: *Infection and Immunity*, 1994, 11: 5003-5009. (A).
- 3.1.1.7 Author/s: I. FERRE, L.M. ORTEGA MORA, F.A. ROJO VÁZQUEZ.
Title: "Prevalence of *Dicrocoelium dendriticum* infection in sheep in Leon province (NW, Spain)".
In: *Preventive Veterinary Medicine*, 1994, 21: 147-154. (A).
- 3.1.1.8 Author/s: I. FERRE, L.M. ORTEGA MORA, F.A. ROJO VÁZQUEZ.
Title: "Seroprevalence of *Fasciola hepatica* infection in sheep in northwestern Spain".
In: *Parasitology Research*, 1995, 81: 137-142. (A).
- 3.1.1.9 Author/s: I. FERRE, L.M. ORTEGA MORA, F.A. ROJO VÁZQUEZ.
Title: "Serum and bile antibody responses (IgG and IgA) during subclinical *Fasciola hepatica* infection in sheep".
In: *Veterinary Parasitology*, 1997, 68: 261-267. (A).
- 3.1.1.10 Author/s: J.A. REQUEJO FERNÁNDEZ, A. MARTÍNEZ, A. MEANA, F.A. ROJO VÁZQUEZ, K. OSORO, L.M. ORTEGA MORA.
Title: "Anthelmintic resistance in nematode parasites from goats in Spain".
In: *Veterinary Parasitology*, 1997, 73: 83-88. (A).
- 3.1.1.11 Author/s: L.M. ORTEGA MORA, N. DÍEZ BAÑOS, B. MARTÍNEZ GONZALEZ, F.A. ROJO VÁZQUEZ.
Title: "Controlled field efficacy of injectable moxidectin against naturally acquired psoroptic mange in sheep".
In: *Small Ruminant Research*, 1998, 29: 271-276. (A).

- 3.1.1.12 Author/s: S. MARTÍN GÓMEZ, J. PEREIRA BUENO, R. GONZÁLEZ PANIELLO, L.M. ORTEGA MORA.
Title: "Prevalence of *Tritrichomonas foetus* infection in beef bulls in northwestern Spain".
In: *Veterinary Parasitology*, 1998, 75: 265-268. (A).
- 3.1.1.13 Author/s: L.M. ORTEGA MORA, J.A. REQUEJO FERNÁNDEZ, M. PILAR IZQUIERDO, J. PEREIRA BUENO.
Title: "Role of the adult sheep population in transmission of infection by *Cryptosporidium parvum* to the lambs: confirmation of a periparturient rise".
In: *International Journal for Parasitology*, 1999, 29: 1261-1268. (A).
- 3.1.1.14 Author/s: D. DE GRAAF, E. VANOPDENBOSCH, L.M. ORTEGA MORA, H. ABBASSI, J.E. PEETERS.
Title: "The importance of cryptosporidiosis in farm animals".
In: *International Journal for Parasitology*, 1999, 29:1267-1287. (R).
- 3.1.1.15 Author/s: A. QUINTANILLA GOZALO, J. PEREIRA BUENO, E. TABARÉS, E.A. INNES, R. GONZÁLEZ PANIELLO, L.M. ORTEGA MORA.
Title: "Seroprevalence of *Neospora caninum* infection in dairy and beef cattle in Spain".
In: *International Journal for Parasitology*, 1999, 29: 1201-1208. (A).
- 3.1.1.16 Author/s: M. GÓMEZ BAUTISTA, L.M. ORTEGA MORA, E. TABARES, V. LOPEZ RODAS, E. COSTAS.
Title: "Detection of infectious *Cryptosporidium parvum* oocysts in mussels (*Mytilus galloprovincialis*) and cockles (*Cerastoderma edule*)".
In: *Applied and Environmental Microbiology*, 2000, 66: 1866-1870. (A).
- 3.1.1.17 Author/s: A. QUINTANILLA GOZALO, J. PEREIRA BUENO, A. SEIJAS CARBALLEDO, E. COSTAS, L.M. ORTEGA MORA.
Title: "Observational studies in *Neospora caninum* infected dairy cattle: relationship infection-abortion and gestational antibody fluctuations. In: Hemphill, A. and Gottstein B. (editors). A European perspective on *Neospora caninum*".
In: *International Journal for Parasitology*, 2000, 30: 900-906. (A).
- 3.1.1.18 Author/s: J. PEREIRA BUENO, A. QUINTANILLA GOZALO, A. SEIJAS CARBALLEDO, E. COSTAS, L.M. ORTEGA MORA.
Title: "Observational studies in *Neospora caninum* infected dairy cattle: pattern of transmission and age-related antibody fluctuations. In: Hemphill, A. and Gottstein B. (editors). A European perspective on *Neospora caninum*".
In: *International Journal for Parasitology*, 2000; 30: 906-909. (A).
- 3.1.1.19 Author/s: C. ALONSO ANDICOBERRY, F. GARCÍA PEÑA, J. PEREIRA BUENO, E. COSTAS, L.M. ORTEGA MORA.
Title: "Herd-level risk factors associated with *Leptospira* spp. seroprevalence in dairy and beef cattle in Spain".
In: *Preventive Veterinary Medicine*, 2001, 52: 109-117. (A).
- 3.1.1.20 Author/s: E. COLLANTES FERNÁNDEZ, A. ZABALLOS, G. ÁLVAREZ GARCÍA, L.M. ORTEGA MORA.
Title: "Quantitative detection of *Neospora caninum* in bovine aborted fetuses and experimentally infected mice by real-time PCR".
In: *Journal of Clinical Microbiology*, 2002, 40: 1194-1198. (A).
- 3.1.1.21 Author/s: G. ÁLVAREZ GARCÍA, J. PEREIRA BUENO, M. GÓMEZ BAUTISTA, L.M. ORTEGA MORA.
Title: "Pattern of recognition of *Neospora caninum* tachyzoite antigens by naturally infected pregnant cattle and aborted fetuses".
In: *Veterinary Parasitology*, 2002, 107: 15-27. (A).
- 3.1.1.22 Author/s: G. ÁLVAREZ GARCÍA, E. COLLANTES FERNÁNDEZ, E. COSTAS, X. REBORDOSA, L.M. ORTEGA MORA.

- Title: "Influence of age and technique purpose on the cut-off selection of serological methods in bovine neosporosis".
In: *Veterinary Research*, 2003, 34: 341-352. (A).
- 3.1.1.23 Author/s: J. PEREIRA BUENO, A. QUINTANILLA GOZALO, V. PÉREZ PÉREZ, A. ESPI FELGUEROSO, G. ÁLVAREZ GARCÍA, E. COLLANTES FERNÁNDEZ, L.M. ORTEGA MORA.
Title: "Evaluation by different diagnostic techniques of bovine abortion associated with *Neospora caninum* in Spain".
In: *Veterinary Parasitology*, 2003, 111: 143-152. (A).
- 3.1.1.24 Author/s: L.M. ORTEGA MORA, I. FERRE, I. DEL POZO, A. CAETANO DA SILVA, E. COLLANTES FERNÁNDEZ, J. REGIDOR CERRILLO, C. UGARTE GARAGALZA, G. ADURIZ.
Title: "Detection of *Neospora caninum* in semen of bulls". "Rapid communication".
In: *Veterinary Parasitology*, 2003, 117: 301-308. (A).
- 3.1.1.25 Author/s: J. PEREIRA BUENO, A. QUINTANILLA GOZALO, V. PÉREZ PÉREZ, G. ÁLVAREZ GARCÍA, E. COLLANTES FERNÁNDEZ, L.M. ORTEGA MORA.
Title: "Evaluation of ovine abortion associated with *Toxoplasma gondii* in Spain by different diagnostic techniques".
In: *Veterinary Parasitology*, 2004, 121: 33-43. (A).
- 3.1.1.26 Author/s: A. CAETANO DA SILVA, I. FERRE, G. ADURIZ, G. ÁLVAREZ GARCÍA, I. DEL POZO, R. ATXAERANDIO, J. REGIDOR CERRILLO, C. UGARTE GARAGALZA, L.M. ORTEGA MORA.
Title: "*Neospora caninum* infection in breeder bulls: seroprevalence and comparison of serological methods used for diagnosis".
In: *Veterinary Parasitology*, 2004, 124: 19-24. (A).
- 3.1.1.27 Author/s: V. RISCO CASTILLO, A. FERNÁNDEZ GARCÍA, L.M. ORTEGA MORA.
Title: "Comparative analysis of stress in a simplified in vitro system of *Neospora caninum* bradyzoite production".
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- 3.1.1.28 Author/s: E. COLLANTES FERNÁNDEZ, G. ÁLVAREZ GARCÍA, V. PÉREZ PÉREZ, J. PEREIRA BUENO, L.M. ORTEGA MORA.
Title: "Characterization of pathology and parasite load in outbred and inbred mouse models of chronic *Neospora caninum* infection".
In: *Journal of Parasitology*, 2004, 90: 579-583. (A).
- 3.1.1.29 Author/s: G. CHÁVEZ VELÁSQUEZ, G. ÁLVAREZ GARCÍA, E. COLLANTES FERNÁNDEZ, E. CASAS ASTOS, R. ROSADIO ALCÁNTARA, E. SERRANO MARTÍNEZ, L.M. ORTEGA MORA.
Title: "First report of *Neospora caninum* infection in adult alpacas (*Vicugna pacos*) and llamas (*Lama glama*)".
In: *Journal of Parasitology*, 2004, 90: 864-866. (A).
- 3.1.1.30 Author/s: VON BLUMRÖDER, G. SCHARES, R. NORTON, J.L. WILLIAMS, I. ESTEBAN REDONDO, S. WRIGHT, C. BJÖRKMAN, J. FRÖSSLING, V. RISCO CASTILLO, A. FERNÁNDEZ GARCÍA, L.M. ORTEGA MORA, H. SAGER, A. HEMPHILL, C. VAN MAANEN, W. WOUDE, F.J. CONRATHS.
Title: "Comparison and standardisation of serological methods for the diagnosis of *Neospora caninum* infection in bovines".
In: *Veterinary Parasitology*, 2004, 120: 11-22. (A).
- 3.1.1.31 Author/s: A. CAETANO DA SILVA, I. FERRE, E. COLLANTES FERNÁNDEZ, V. NAVARRO, G. ADURIZ, C. UGARTE GARAGALZA, L.M. ORTEGA MORA.
Title: "Occasional detection of *Neospora caninum* DNA in frozen extended semen from naturally infected bulls".

- In: *Theriogenology*, 2004, 62: 1329-1336. (A).
- 3.1.1.32 Author/s: C. VAN MAANEN, W. WOUDE, G. SCHARES, VON BLUMRÖDER, F.J. CONRATHS, R. NORTON, J.L. WILLIAMS, I. ESTEBAN REDONDO, E.A. INNES, J.G. MATTSSON, C. BJÖRKMAN, A. FERNÁNDEZ GARCÍA, L.M. ORTEGA MORA, N. MÜLLER, H. SAGER, A. HEMPHILL.
Title: "An interlaboratory comparison of immunohistochemistry and PCR methods for detection of *Neospora caninum* in bovine foetal tissues".
In: *Veterinary Parasitology*, 2004, 126: 351-364. (A).
- 3.1.1.33 Author/s: E. SERRANO MARTÍNEZ, E. COLLANTES FERNÁNDEZ, A. RODRÍGUEZ BERTOS, E. CASAS ASTOS, G. ALVAREZ GARCÍA, A. CHÁVEZ VELÁSQUEZ, L.M. ORTEGA MORA.
Title: "*Neospora* sp. associated abortion in alpaca (*Vicugna pacos*) and llama (*Lama glama*)".
In: *Veterinary Record*, 2004, 155, 748-749. (A).
- 3.1.1.34 Author/s: FERRE, I. G. ADURIZ, I. DEL POZO, J. REGIDOR CERRILLO, R. ATXAERANDIO, E. COLLANTES FERNÁNDEZ, A. HURTADO, C. UGARTE GARAGALZA, L.M. ORTEGA MORA.
Title: "Detection of *Neospora caninum* in the semen and blood of naturally infected bulls".
In: *Theriogenology*, 2005, 63: 1504-1518. (A).
- 3.1.1.35 Author/s: G. CHÁVEZ VELÁSQUES, G. ÁLVAREZ GARCÍA, M. GÓMEZ BAUTISTA, E. CASAS ASTOS, E. SERRANO MARTÍNEZ, L.M. ORTEGA MORA.
Title: "*Toxoplasma gondii* infection in adult llamas (*Lama glama*) and vicunas (*Vicugna vicugna*) in the Peruvian Andean region."
In: *Veterinary Parasitology*, 2005, 130: 93-97. (A).
- 3.1.1.36 Author/s: F.J. PÉREZ ZABALLOS, L.M. ORTEGA MORA, G. ÁLVAREZ GARCÍA, L. GARCÍA VILLADA, E. COSTAS.
Title: "Adaptation of *Neospora caninum* isolates to cell-culture changes: an argument in favor of its clonal population structure".
In: *Journal of Parasitology*, 2005, 507-510. (A).
- 3.1.1.37 Author/s: E. COLLANTES FERNÁNDEZ, A. RODRÍGUEZ BERTOS, I. ARNÁIZ SECO, B. MORENO, G. ADURIZ, L.M. ORTEGA MORA.
Title: "Influence of the stage of pregnancy on *Neospora caninum* distribution, parasite loads and lesions in aborted bovine fetuses".
In: *Theriogenology*, 2006, 65: 629-641. (A).
- 3.1.1.38 Author/s: I. FERRE, A. BENITO, U. GARCÍA, K. OSORO, L.M. ORTEGA MORA.
Title: "Effect of different decoquinate treatment regimes on the outcome of cryptosporidiosis in naturally infected Cashmere goat kids".
In: *Veterinary Record*, 2005, 157: 261-262. (A).
- 3.1.1.39 Author/s: AGUADO-MARTÍNEZ, G. ÁLVAREZ-GARCÍA, I. ARNAIZ-SECO, E. INNES, L.M. ORTEGA MORA.
Title: "Use of avidity enzyme-linked immunosorbent assay and avidity Western blot to discriminate between acute and chronic *Neospora caninum* infection in cattle".
In: *Journal Veterinary Diagnostic Investigation*, 2005, 6: 39-47. (A).
- 3.1.1.40 Author/s: A. FERNÁNDEZ-GARCÍA, V. RISCO-CASTILLO, A. ZABALLOS, G. ÁLVAREZ-GARCÍA, L.M. ORTEGA MORA.
Title: "Identification and molecular cloning of the *Neospora caninum* SAG4 gene specifically expressed at bradyzoite stage".
In: *Molecular and Biochemical Parasitology*, 2006, 146: 89-97. (A).
- 3.1.1.41 Author/s: E. SERRANO, I. FERRE, K. OSORO, G. ADURIZ, A. MATEOS-SANZ, A. MARTÍNEZ, R. ATXAERANDIO, C.O. HIDALGO, L.M. ORTEGA MORA.
Title: "Intrauterine *Neospora caninum* inoculation of heifers".

- In: *Veterinary Parasitology*, 2006, 135: 197-203. (A).
- 3.1.1.42 Author/s: L. M. ORTEGA MORA, A. FERNÁNDEZ GARCÍA & M. GÓMEZ BAUTISTA.
Title: "Diagnosis of bovine neosporosis: Recent advances and perspectives".
In: *Acta Parasitologica*, 2006, 51: 1-14. (R).
- 3.1.1.43 Author/s: C. J. M. BARTELS, J. A. RUIZ-SANTA-QUITERA, I. ARNÁIZ-SECO, C. BJÖRKMAN, J. FRÖSSLING, VON BLUMRÖDER, F. J. CONRATHS, G. SCHARES, C. VAN MAANEN, W. WOUDE, L.M. ORTEGA MORA.
Title: "Supranational comparison of *Neospora caninum* seroprevalences in cattle in Germany, The Netherlands, Spain and Sweden".
In: *Veterinary Parasitology*, 2006, 137: 17-27. (A).
- 3.1.1.44 Author/s: E. COLLANTES-FERNÁNDEZ, I. LÓPEZ-PÉREZ, G. ÁLVAREZ-GARCÍA, L.M. ORTEGA MORA.
Title: "Temporal distribution and parasite load kinetics in blood and tissues during *Neospora caninum* infection in mice".
In: *Infection and Immunity*, 2006, 74: 2491-2494. (A).
- 3.1.1.45 Author/s: C. BJÖRKMAN, G. ÁLVAREZ GARCÍA, F.J. CONRATHS, J.G. MATTSSON, L.M. ORTEGA MORA, H. SAGER, G. SCHARES.
Title: "*Neospora caninum* IgG avidity tests: an interlaboratory comparison".
In: *Veterinary Parasitology*, 2006, 140: 273-280. (A).
- 3.1.1.46 Author/s: J. REGIDOR CERRILLO, S. PEDRAZA DÍAZ, M. GOMEZ BAUTISTA, L.M. ORTEGA MORA.
Title: "Multilocus microsatellite analysis reveals extensive genetic diversity in *Neospora caninum*".
In: *Journal of Parasitology*, 2006, 92: 517-524. (A).
- 3.1.1.47 Author/s: G. ÁLVAREZ GARCÍA, I. LÓPEZ PÉREZ, E. INNES, E. COLLANTES FERNÁNDEZ, A. FERNÁNDEZ GARCÍA, M. GÓMEZ BAUTISTA, L.M. ORTEGA MORA.
Title: "Use of an immunodominant p17 antigenic fraction of *Neospora caninum* in detection of antibody response in cattle".
In: *Memorias del Instituto Oswaldo Cruz*, 2006, 101: 529-534. (A).
- 3.1.1.48 Author/s: E. COLLANTES FERNÁNDEZ, I. ARNÁIZ SECO, B. MORENO BURGOS, A. RODRÍGUEZ BERTOS, G. ADURIZ, A. FERNÁNDEZ GARCÍA, L.M. ORTEGA MORA.
Title: "Comparison of *Neospora caninum* distribution, parasite loads and lesions between epidemic and endemic bovine abortion cases".
In: *Veterinary Parasitology*, 2006, 142: 187-191. (A).
- 3.1.1.49 Author/s: A. NAGULESWARAN, M. SPICHER, N. VONLAUFEN, L.M. ORTEGA MORA, P. TORGERSO, B. GOTTSTEIN, A. HEMPHILL.
Title: "In vitro protoscolicidal and metacestodicidal activity of genistein and other isoflavones against *Echinococcus multilocularis* and *Echinococcus granulosus*".
In: *Antimicrobial Agents and Chemotherapy*, 2006, 50: 3770-8. (A).
- 3.1.1.50 Author/s: G. ÁLVAREZ GARCÍA, A. PITARCH, A. ZABALLOS, A. FERNÁNDEZ GARCÍA, C. GIL, M. GÓMEZ BAUTISTA, A. AGUADO MARTÍNEZ, L.M. ORTEGA MORA.
Title: "The NcGRA7 gene encodes the immunodominant 17-kDa antigen of *Neospora caninum*".
In: *Parasitology*, 2007, 134: 41-50. (A).
- 3.1.1.51 Author/s: K. OSORO, A. BENITO PEÑA, P. FRUTOS, U. GARCÍA, R. CELAYA, I. FERRE, L.M. ORTEGA MORA.
Title: "The effect of heather supplementation of gastrointestinal nematode infections and performance in Cashmere and local Celtiberic goats on pasture".
In: *Small Ruminant Research*, 2007, 67: 184-191. (A).

- 3.1.1.52 Author/s: I. LÓPEZ PÉREZ, E. COLLANTES FERNÁNDEZ, V. RISCO CASTILLO, L.M. ORTEGA MORA.
Title: "Comparative effect of *Neospora caninum* infection in BALB/c mice at three different gestation periods".
In: *Journal of Parasitology*, 2006, 92: 1286-1291. (A).
- 3.1.1.53 Author/s: E. SERRANO MARTÍNEZ, I. FERRE, K. OSORO, G. ADURIZ, R.A. MOTA, A. MARTÍNEZ, I. DEL POZO, C.O. HIDALGO, L.M. ORTEGA MORA.
Title: "Intrauterine *Neospora caninum* inoculation of heifers and cows using contaminated semen with different numbers of tachyzoites".
In: *Theriogenology*, 2007, 67: 729-737. (A).
- 3.1.1.54 Author/s: K. OSORO, A. MATEOS-SANZ, P. FRUTOS, U. GARCÍA, L.M. ORTEGA MORA, L.M.M. FERREIRA, R. CELAYA, I. FERRE.
Title: "Anthelmintic and nutritional effects of heather supplementation on Cashmere goats grazing perennial ryegrass-white clover pastures".
In: *Journal of Animal Science*, 2007, 85: 861-870. (A).
- 3.1.1.55 Author/s: J.P. DUBEY, G. SCHARES, L.M. ORTEGA MORA.
Title: "Epidemiology and control of neosporosis and *Neospora caninum*".
In: *Clinical Microbiology Reviews*, 2007, 20: 323-367.
- 3.1.1.56 Author/s: E. SERRANO MARTÍNEZ, I. FERRE, A. MARTÍNEZ, K. OSORO, A. MATEOS SANZ, I. DEL POZO, G. ADURIZ, C. TAMARGO, C.O. HIDALGO, L.M. ORTEGA MORA.
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Title: "Molecular characterization of BSR4, a novel bradyzoite-specific gene from *Neospora caninum*".
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In: *Veterinary parasitology*, 2007, 150: 39-45.
- 3.1.1.59 Author/s: I. FERRE, E. SERRANO-MARTINEZ, A. MARTINEZ, K. OSORO, A. MATEOS-SANZ, I. DEL-POZO, G. ADURIZ, C. TAMARGO, C.O. HIDALGO, L.M. ORTEGA-MORA.
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Title: "Seroprevalence and risk factors associated with *Neospora caninum* infection in different dog populations in Spain".
In: *Veterinary Parasitology* 2008, 152: 148-151.
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Title: "In vitro and in vivo effects of 2-methoxyestradiol, either alone or combines with albendazole, against *Echinococcus metacestodes*".
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In: *Veterinary Parasitology*, 2008, 155: 175-183.
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- 3.1.1.66 Author/s: D.P. MOORE, J. REGIDOR-CERRILLO, E. MORRELL, M.A. POSO, D.B. CANO, M.R. LEUNDA, L. LINSCHINKY, A.C. ODEÓN, E. ODRIÓZOLA, L.M. ORTEGA-MORA, C.M. CAMPERO.
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- 3.1.1.67 Author/s: R. CELAYA, R. BENAVIDES, U. GARCÍA, L.M. FERREIRA, I. FERRE, A. MARTÍNEZ, L.M. ORTEGA-MORA, K. OSORO.
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- 3.1.1.69 Author/s: A. FERNANDEZ-GARCÍA, V. RISCO-CASTILLO, S. PEDRAZA-DÍAZ, G. ALVAREZ-GARCÍA, M. GÓMEZ-BAUTISTA, L.M. ORTEGA-MORA.
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In: *Journal of Parasitology*, 2008, accepted.
- 3.1.1.70 Author/s: S. ROJO-MONTEJO E. COLLANTES-FERNÁNDEZ, J. REGIDOR-CERRILLO, G. ALVAREZ-GARCÍA, V. MARUGÁN-HERNÁNDEZ, S. PEDRAZA-DÍAZ, J. BLANCO-MURCIA, A. PRENAFETA, L.M. ORTEGA-MORA.
Title: Isolation and characterization of a low virulent bovine isolate of *Neospora caninum* from Spain.
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- 3.1.2.1. Author/s: L.M. ORTEGA MORA, I. FERRE, M. GÓMEZ BAUTISTA, F.A. ROJO VÁZQUEZ.
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- 3.1.2.3. Author/s: F.A. ROJO VÁZQUEZ, L.M. ORTEGA MORA, A. RÓDENAS, J. GUERRERO.
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In: *Medicina Veterinaria*, 1996, 13: 77-87.
- 3.1.2.8. Author/s: L.M. ORTEGA MORA, M. MUÑOZ-FERNÁNDEZ.
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In: *Nuestra Cabaña*, 1998, 280: 24-31.
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In: *Anaporc*, 1998, 183: 25-42.
- 3.1.2.11. Author/s: L.M. ORTEGA MORA.
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- 3.1.2.15. Author/s: L.M. ORTEGA MORA.
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- 3.1.2.16. Author/s: L.M. ORTEGA MORA, G. ÁLVAREZ GARCÍA, E. COLLANTES FERNÁNDEZ, M. GÓMEZ BAUTISTA.
Title: "Sarna sarcóptica porcina: programas de control y erradicación".
In: *Albéitar*, 2000, 38: 4-6.
- 3.1.2.17. Author/s: X. REBORDOSA, G. ÁLVAREZ GARCÍA, E. COLLANTES, L.M. ORTEGA MORA, C. ARTIGAS.
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- 3.1.2.20. Author/s: L.M. ORTEGA MORA, G. ÁLVAREZ, E. COLLANTES.
Title: "Situación actual de la toxoplasmosis ovina y caprina".
In: *Revista Ciencias Veterinarias*, 2001, 17: 13-16.
- 3.1.2.21. Author/s: A. CHAVÉZ, E. SERRANO, A. CASAS, L.M. ORTEGA MORA.
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In: *Revista Investigaciones Veterinarias del Perú (RIVEP)*, 2002, 13: 92-93.
- 3.1.2.22. Author/s: J. PEREIRA BUENO, G. ÁLVAREZ GARCÍA, E. COLLANTES FERNÁNDEZ, L.M. ORTEGA MORA.
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- 3.1.2.23. Author/s: M. GÓMEZ BAUTISTA, L.M. ORTEGA MORA.
Title: "¿Es la dirofilariosis una enfermedad frecuente en España?".
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- 3.1.2.24. Author/s: L.M. ORTEGA MORA.
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- 3.1.2.25. Author/s: I. FERRE, G. ÁLVAREZ GARCÍA, E. COLLANTES FERNÁNDEZ, F.J. PÉREZ ZABALLOS, L.M. ORTEGA MORA.
Title: "Diagnóstico de la infección y del aborto por *Neospora caninum* en los bovinos".
In: *Producción Animal*, 2003, 190: 52-63.
- 3.1.2.26. Author/s: A. MATEOS SANZ, K. OSORO OTADUY, L.M. ORTEGA MORA, I. FERRE-PÉREZ.
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Title: "Neosporosis bovina".
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- 3.1.2.28. Author/s: P.G. MELO, A. C. DA SILVA, L.M. ORTEGA MORA, S. A. BASTOS, C. M. BOAVENTURA.
Title: "Prevalência de anticorpos anti-*Neospora caninum* em bovinos das microrregiões de Goiânia e Anápolis, Goiás, Brasil"
In: *Revista Brasileira de Parasitologia Veterinaria*, 2006, 15: 105-109. (A).
- 3.1.2.29. Author/s: J. MORENO-GONZALO, K. OSORO, L.M. ORTEGA-MORA, P. FRUTOS, I. FERRE.
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3.2. Publications dealing with teaching, university and professional dissemination

3.2.1 Contributions in journals

- 3.2.1.1 L.M. ORTEGA MORA, A. AGUADO MARTÍNEZ, A. FERNÁNDEZ GARCÍA, G. ALVAREZ GARCÍA
"Neosporosis bovina: nuevos avances en el conocimiento de la transmisión, el diagnóstico y control".
Ganadería, 2006, 40: 28-34.
- 3.2.1.2 A. MATEOS SANZ, L.M. ORTEGA MORA, I. FERRE-PÉREZ.
"Control antihelmíntico de las parasitosis de los pequeños rumiantes en pastoreo".
Producción Animal, 2006, 225: 20-32.
- 3.2.1.3 A. BARBOSA, L.M. ORTEGA MORA, F.T. GARCÍA MORENO, F. VALERA, M.J. PALACIOS.
"Southernmost record of the magellanic penguin *Spheniscus magellanicus* in Antarctica".
Marine Ornithology, 2007, 35:79.
- 3.2.1.4 N. ROMERAL REQUENA, A. AGUADO MARTINEZ, G. ÁLVAREZ GARCÍA, L.M. ORTEGA MORA
"Desarrollo de técnicas serológicas para el diagnóstico de la Neosporosis canina".
Revista Complutense de Ciencias Veterinarias, 2007, 1: 386-393.
- 3.2.1.5 L.M. ORTEGA MORA, S. PEDRAZA, M. GÓMEZ-BAUTISTA, I. FERRE, G. ALVAREZ-GARCIA, F.T. GARCÍA MORENO.
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In: *Revista Ejército*, 2007, 793: 144-147.
- 3.2.1.6 M. GÓMEZ-BAUTISTA, I. FERRE, L.M. ORTEGA MORA.
"Control de las parasitosis porcinas".
In: *Revista Avances en Tecnología Porcina*, 2007, 4:6-22.
- 3.2.1.7 E. SERRANO-MARTÍNEZ, L.M. ORTEGA-MORA, I. FERRE-PÉREZ.
"Neospora caninum" Parte I.
In: *Revista de Ciencias Veterinarias, Lima - Perú*, 2008, 24(1): 7-12.

- 3.2.1.8 E. SERRANO-MARTÍNEZ, L.M. ORTEGA-MORA, I. FERRE-PÉREZ.
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- 3.2.1.9 S. PEDRAZA, L.M. ORTEGA-MORA.
Identificación de pinnípedos antárticos..
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3.3 Books & Chapters of Books.

- 3.3.1 L.M. ORTEGA MORA, I. FERRE, V. RISCO CASTILLO.
"Sarna sarcóptica".
Atlas de Parasitología (INVESA), 2006, 1.
- 3.3.2 L.M. ORTEGA MORA, G. ÁLVAREZ GARCÍA, E. COLLANTES FERNÁNDEZ, F. PÉREZ CEBALLOS.
"Otros ectoparásitos: piojos, garrapatas, pulgas...".
Atlas de Parasitología (INVESA), 2006, 2.
- 3.3.3 L.M. ORTEGA MORA, M. GÓMEZ BAUTISTA, S. PEDRAZA DÍAZ.
"Protozoosis intestinales".
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- 3.3.4 L.M. ORTEGA MORA, M. GÓMEZ BAUTISTA, A. FERNÁNDEZ GARCÍA.
"Protozoosis titulares y hemáticas".
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- 3.3.5 L.M. ORTEGA MORA, F.A. ROJO VÁZQUEZ.
"Relaciones parásito-hospedador".
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(Eds. M. Cordero del Campillo, F.A. Rojo Vázquez), McGraw-Hill-Interamericana de España, Madrid, 2006;
pp. 39-48.
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- 3.3.6 L.M. ORTEGA MORA, J.M. PEREIRA BUENO, F.A. ROJO VÁZQUEZ.
"Propagación de los parásitos".
In: Parasitología General.
(Eds. Cordero del Campillo, F.A. Rojo Vázquez), McGraw-Hill-Interamericana de España, Madrid, 2006;
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- 3.3.7 L.M. ORTEGA MORA, B. GOTTSTEIN, F. CONRATHS, D. BUXTON. (editores)
"Protozoal abortion in farm ruminants. Guidelines for diagnosis and control".
CAB International, Oxfordshire, UK, 2007, VII-IX..
ISBN (L).
- 3.3.8 L.M. ORTEGA MORA, D. BUXTON, B. GOTTSTEIN, F.J. CONRATHS.
"Introduction".
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CAB International, Oxfordshire, UK, 2007, Páginas: XIII-XVI.
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- 3.3.9 G. ALVAREZ GARCÍA, L.M. ORTEGA MORA, Th. DIJKSTRA, W. WOUDA.
"Neosporosis. Diagnostic applications and recommended diagnostic schemes in cattle".

- In: Protozoal abortion in farm ruminants: guidelines for diagnosis and control.
CAB International, Oxfordshire, UK, 2007, Páginas: 89-98.
ISBN: 978-1-84593-211-4. (CH).
- 3.3.10 H. SAGER, I. FERRE, K. HENNING, L.M. ORTEGA MORA.
"Tritrichomonosis".
In: Protozoal abortion in farm ruminants: guidelines for diagnosis and control.
CAB International, Oxfordshire, UK, 2007, Páginas: 235-265.
ISBN: 978-1-84593-211-4. (CH).
- 3.3.11 F.J. CONRATHS, G. SCHARES, L.M. ORTEGA MORA, B. GOTTSTEIN.
"Control measures. Neosporosis."
In: Protozoal abortion in farm ruminants: guidelines for diagnosis and control.
CAB International, Oxfordshire, UK, 2007, Páginas: 279-287.
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3.4 Publication in Internet databases.

Sequences reported to GEN BANK

- 3.4.1 J. REGIDOR-CERRILLO, S. PEDRAZA-DIAZ, M. GOMEZ-BAUTISTA, L.M. ORTEGA-MORA
Sequences (108) with Accesion No AY935165 to AY935200 and AY937107 to AY937178 corresponding to the microsatellites MS1A, MS1B, MS2, MS3, MS4, MS5, MS6A, MS6B, MS7, MS8, MS10, MS12, MS21 of the isolates of *Neospora caninum*: Nc-Liv, Nc-SwebB1, Nc-Bahia, Nc-PV1, Nc-KBA1, Nc-KBA2, Nc-SHEEP, Nc-GER1, Hammondia heydorni Berlin-1996.
- 3.4.2 A. FERNÁNDEZ GARCÍA, L.M. ORTEGA MORA.
Sequence of the gene SAG-4 of the bradyzoite of *Neospora caninum*.
gi|59709801|gb|AY763105.1|59709801]
- 3.4.3 RISCO-CASTILLO, V., FERNÁNDEZ-GARCÍA, A., L.M. ORTEGA MORA.
Sequence of the gene BSR4 of the bradyzoite of *Neospora caninum*.
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- 3.4.4 RISCO-CASTILLO, V., FERNÁNDEZ-GARCÍA, A., RODRÍGUEZ-MARCO, S., L.M. ORTEGA MORA.
"Organization of the SRS9 locus in *Neospora caninum*"
gi|146746648|gb|EF440644|146746648]
- 3.4.5 E. Collantes-Fernandez, S. Rojo-Montejo, G. Alvarez-Garcia, J. Regidor-Cerrillo, L.M. ORTEGA-MORA.
Sequences (12) with Accesion No CS693095 al CS693106, corresponding to: Avirulent isolate of *Neospora caninum* and its uses Sequence 1 from Patent WO2007073914
gi|158059256|emb|CS693095.1|pat[WO.2007073914|158059255] a
gi|158059256|emb|CS693106.1|pat[WO.2007073914|158059267]

3.5 Proceedings of Scientific Meetings.

- 3.5.1 Meeting: European Union Cost-Action 854 Protozoal reproduction losses in farm ruminants. Joint Meeting of Working Groups 2 & 3. "New aspects on transmission and diagnosis of ruminant protozoal abortifacients".

Place of meeting: Derio, Spain. 17-19 June 2004.

- 3.5.2 Meeting: European Union Cost-Action 854 Diagnostic Workshop on protozoal abortions in farm ruminants.
Place of meeting: Faculty of Veterinary Science, Complutense University of Madrid, Spain, 14-16 June 2006.

3.6 MONOGRAPHS

- 3.6.1. Authors: L.M. ORTEGA MORA, F.A. ROJO VÁZQUEZ.
Title: "Etiología y ciclo biológico".
Monograph title: *Cestodosis larvarias*.
Journal: BOVIS, 1992, 49: 57-62.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.2. Authors: L.M. ORTEGA MORA, F.A. ROJO VÁZQUEZ.
Title: "Epidemiología".
Monograph title: *Cestodosis larvarias*.
Journal: BOVIS, 1992, 49: 63-70.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.3. Authors: L.M. ORTEGA MORA, F.A. ROJO VÁZQUEZ.
Title: "Patología y diagnóstico".
Monograph title: *Cestodosis larvarias*.
Journal: BOVIS, 1992, 49: 73-78.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.4. Authors: L.M. ORTEGA MORA, F.A. ROJO VÁZQUEZ.
Title: "Tratamiento, prevención y control".
Monograph title: *Cestodosis larvarias*.
Journal: BOVIS, 1992, 49: 81-85.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.5. Authors: I. FERRE, L.M. ORTEGA MORA.
Title: "Etiología y biología".
Monograph title: *Dirofilariosis*.
Journal: CANIS ET FELIS, 1993, 3: 8-16.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.6. Authors: L.M. ORTEGA MORA, I. FERRE, J.F. RODRÍGUEZ GARCÍA.
Title: "Diagnóstico".
Monograph title: *Dirofilariosis*.
Journal: CANIS ET FELIS, 1993, 3: 46-57.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.7. Authors: M. MUÑOZ FERNÁNDEZ, L.M. ORTEGA MORA, P. CÁRMENES DÍEZ.
Title: "Etiología".
Monograph title: *Gastroenteritis infecciosas y parasitarias de los corderos y cabritos*.
Journal: OVIS, 1993, 27: 9-34.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.8. Authors: L.M. ORTEGA MORA, M. MUÑOZ FERNÁNDEZ, F.A. ROJO VÁZQUEZ.
Title: "Epidemiología".
Monograph title: *Gastroenteritis infecciosas y parasitarias de los corderos y cabritos*.
Journal: OVIS, 1993, 27: 35-55.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.9. Authors: M. MUÑOZ FERNÁNDEZ, L.M. ORTEGA MORA.
Title: "Patogenia".
Monograph title: *Gastroenteritis infecciosas y parasitarias de los corderos y cabritos*.
Journal: OVIS, 1993, 27: 57-63.
Publishing House: Luzán 5 S.A., Madrid.

- 3.6.10. Authors: **L.M. ORTEGA MORA**, M. MUÑOZ FERNÁNDEZ, F.A ROJO VÁZQUEZ.
Title: "Cuadro clínico y lesiones".
Monograph title: **Gastroenteritis infecciosas y parasitarias de los corderos y cabritos**.
Journal: OVIS, 1993, 27: 65-72.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.11. Authors: M. MUÑOZ FERNÁNDEZ, **L.M. ORTEGA MORA**, P. CÁRMENES DÍEZ.
Title: "Diagnóstico".
Monograph title: **Gastroenteritis infecciosas y parasitarias de los corderos y cabritos**.
Journal: OVIS, 1993, 27: 73-86.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.12. Authors: **L.M. ORTEGA MORA**, M. MUÑOZ FERNÁNDEZ, P. CÁRMENES DÍEZ.
Title: "Tratamiento y profilaxis".
Monograph title: **Gastroenteritis infecciosas y parasitarias de los corderos y cabritos**.
Journal: OVIS, 1993, 27: 87-100.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.13. Authors: **L.M. ORTEGA MORA**, A. MEANA, R. CAMPO SANTANA, F.A. ROJO VÁZQUEZ.
Title: "Patogenia y Patología".
Monograph title: **Dicroceliosis**.
Journal: OVIS, 1995, 39: 35-45.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.14. Authors: I. FERRE, **L.M. ORTEGA MORA**.
Title: "Diagnóstico".
Monograph title: **Dicroceliosis**.
Journal: OVIS, 1995, 39: 47-51.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.15. Authors: F.A. ROJO VÁZQUEZ, **L.M. ORTEGA MORA**.
Title: "Principales parasitosis del ganado vacuno en extensivo".
Monograph title: **Producción de carne de vacuno de calidad (I): Conocimientos básicos para el desarrollo de sistemas sostenibles**.
Journal: BOVIS, 1995, 66: 83-93.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.16. Authors: A. MEANA, **L.M. ORTEGA MORA**, J. PEREIRA BUENO, F.A. ROJO VÁZQUEZ.
Title: "Patología".
Monograph title: **Bronconeumonías verminosa**.
Journal: OVIS, 1996, 44: 43-56.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.17. Authors: **L.M. ORTEGA MORA**, J. PEREIRA BUENO, M. LUZÓN.
Title: "Diagnóstico".
Monograph title: **Bronconeumonías verminosas**.
Journal: OVIS, 1996, 44: 57-64.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.18. Authors: J.M. PEREIRA BUENO, **L.M. ORTEGA MORA**.
Title: "Control de la toxoplasmosis".
Monograph title: **Toxoplasmosis-Neosporosis**.
Journal: OVIS, 1997, 52: 59-73.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.19. Authors: **L.M. ORTEGA MORA**, A. QUINTANILLA GOZALO, J.M. PEREIRA BUENO.

- Title: "Neosporosis ovina y caprina: conocimientos actuales".
Monograph title: *Toxoplasmosis-Neosporosis*.
Journal: OVIS, 1997, 52: 75-80.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.20. Authors: M. LUZÓN PEÑA, L.M. ORTEGA MORA.
Title: "Etiología y biología".
Monograph title: *Patología de la reproducción de etiología parasitaria I: Tricomonos*.
Journal: BOVIS, 1998, 84: 13-19.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.21. Authors: L.M. ORTEGA MORA, S. MARTÍN GÓMEZ, J. PEREIRA BUENO.
Title: "Epidemiología".
Monograph title: *Patología de la reproducción de etiología parasitaria I: Tricomonos*.
Journal: BOVIS, 1998, 84: 21-27.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.22. Authors: L.M. ORTEGA MORA, G. ÁLVAREZ GARCÍA.
Title: "Patología e Inmunidad".
Monograph title: *Patología de la reproducción de etiología parasitaria I: Tricomonos*.
Journal: BOVIS, 1998, 84: 29-39.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.23. Authors: L.M. ORTEGA MORA, S. MARTÍN GÓMEZ, J. PEREIRA BUENO.
Title: "Diagnóstico".
Monograph title: *Patología de la reproducción de etiología parasitaria I: Tricomonos*.
Journal: BOVIS, 1998, 84: 41-49.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.24. Authors: L.M. ORTEGA MORA, J. PEREIRA BUENO.
Title: "Tratamiento y profilaxis".
Monograph title: *Patología de la reproducción de etiología parasitaria I: Tricomonos*.
Journal: BOVIS, 1998, 84: 51-59.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.25. Authors: J. PEREIRA BUENO, A. QUINTANILLA GOZALO, L. DEL RÍO GONZÁLEZ, L.M. ORTEGA MORA.
Title: "Epidemiología (I): prevalencia e importancia económica".
Monograph title: *Patología de la reproducción de etiología parasitaria II: Neosporosis*.
Journal: BOVIS, 1999, 88: 19-83.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.26. Authors: J. PEREIRA BUENO, A. QUINTANILLA GOZALO, L. DEL RÍO GONZÁLEZ, L.M. ORTEGA MORA.
Title: "Epidemiología (II): transmisión y factores de riesgo".
Monograph title: *Patología de la reproducción de etiología parasitaria II: Neosporosis*.
Journal: BOVIS, 1999, 88: 35-42.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.27. Authors: V. PÉREZ, J.M. CORPA, L.M. ORTEGA MORA, J. PEREIRA BUENO.
Title: "Patología e Inmunidad".
Monograph title: *Patología de la reproducción de etiología parasitaria II: Neosporosis*.
Journal: OVIS, 1999, 88: 45-53.
Publishing House: Luzán 5 S.A., Madrid.
- 3.6.28. Authors: J. PEREIRA BUENO, A. QUINTANILLA GOZALO, L. DEL RÍO GONZÁLEZ, L.M. ORTEGA MORA.
Title: "Diagnóstico".
Monograph title: *Patología de la reproducción de etiología parasitaria II: Neosporosis*.

Journal: BOVIS, 1999, 88: 55-67.
Publishing House: Luzán 5 S.A., Madrid.

- 3.6.29. Authors: C. ALONSO ANDICOBERRI, L.M. ORTEGA MORA.
Title: "Epidemiología".
Monograph title: *Leptospirosis*.
Journal: OVIS, 2002, 106: 29-45.
Publishing House: Luzán 5 S.A., Madrid.

4. Participation in especially relevant contracts of Research and Development with Companies and/or Administrations.

(national and/or international)

- 4.1 "PREVALENCIA DE LAS FILARIOSIS DEL PERRO EN ESPAÑA".
Type of contract: University-Company.
Funding Company/Administration: Merck Sharp Dohme AGVET.
Participating entities: Animal Health Dept. of the Complutense University of Madrid.
Length: from 1987 to 1989.
Main Researcher: Dr. Francisco A. Rojo Vázquez.
Position: investigator.
Number of participating researchers: four.
- 4.2 "EPIZOOTIOLOGÍA DE LA HIDATIDOSIS EN LA COMUNIDAD DE MADRID".
Type of contract: University-Company.
Funding Company/Administration: Comunidad de Madrid.
Participating entities: Comunidad de Madrid, Animal Health Dept. of the Complutense University of Madrid
Length: from 1987 to 1988
Main Researcher: D. Francisco A. Rojo Vázquez.
Position: investigator.
Number of participating researchers: four.
- 4.3 "ESTUDIO SOBRE LA PREVALENCIA DE PARASITISMOS PULMONARES, GASTROINTESTINALES Y HEPÁTICOS EN EL GANADO VACUNO DE CANTABRIA".
Type of contract: University-Company.
Funding Company/Administration: Veterinary Services of Cantabria, S.A.
Participating entities: Animal Health Dept. of the University of León.
Length: from 1990 to 1991.
Main Researcher: Dr. Francisco A. Rojo Vázquez.
Position: investigator.
Number of participating researchers: three.
- 4.4 "MOXIDECTIN: EFFICACY AGAINST NATURAL INFECTION WITH *Dictyocaulus filaria* IN SHEEP".
Type of contract: University-Company.
Funding Company/Administration: American Cyanamid Company. USA
Participating entities: Animal Health Dept. of the University of Leon.
Length: 1991.
Main Researcher: Dr. Francisco A. Rojo Vázquez.
Position: investigator.
Number of participating researchers: six.
- 4.5 "EFFICACY OF MOXIDECTIN 0.2% ORAL DRENCH SOLUTION AGAINST ARTIFICIALLY ACQUIRED GASTROINTESTINAL NEMATODE INFECTIONS IN SHEEP IN SPAIN".
Type of contract: University-Company.
Funding Company/Administration: American Cyanamid Company. USA

- Participating entities: Animal Health Dept. of the University of Leon.
 Length: 1991.
 Main Researcher: Dr. Francisco A. Rojo Vázquez.
 Position: investigator.
 Number of participating researchers: seven.
- 4.6 "CONTROLLED FIELD EFFICACY OF MOXIDECTIN 1% INJECTABLE AGAINST NATURALLY ACQUIRED PSOROPTIC AND/OR SARCOPTIC MANGE IN SHEEP".
 Type of contract: University-Company.
 Funding Company/Administration: American Cyanamid Company. USA
 Participating entities: Animal Health Dept. of the University of Leon.
 Length: 1993.
 Main Researcher: Dr. Francisco A. Rojo Vázquez.
 Position: investigator.
 Number of participating researchers: four.
- 4.7 "CONTROLLED FIELD EFFICACY OF MOXIDECTIN 1% INJECTABLE AGAINST NATURAL INFECTION WITH *Dictyocaulus filaria* IN SHEEP".
 Type of contract: University-Company
 Funding Company/Administration: American Cyanamid Company. USA
 Participating entities: Animal Health Dept. of the University of Leon.
 Length: 1993.
 Main Researcher: Dr. Francisco A. Rojo Vázquez.
 Position: investigator.
 Number of participating researchers: four.
- 4.8 "PREVALENCIA DE LA TRICOMONOSIS BOVINA EN LA MONTAÑA DE RIAÑO".
 Type of contract: University-Company.
 Funding Company/Administration: Unidad Veterinaria de Cistiema-ADS Cea-Esla.
 Participating entities: Animal Health Dept. of the University of Leon.
 Length: 1995.
 Main Researcher: Dr. Luis Miguel Ortega Mora.
 Number of participating researchers: four.
- 4.9 "SEGUIMIENTO Y CONTROL DE LA SARNA EN LAS POBLACIONES DE CABRA MONTES (*Capra pyrenaica*) EXISTENTES EN ANDALUCÍA".
 Type of contract: art. 11 de LRU.
 Funding Company/Administration:
 Participating entities: University of Jaén, Animal Health Dept. of the Complutense University of Madrid.
 Length: from 1997 to 1998.
 Main Researcher: Dra. Aránzazu Meana Mañes.
 Position: investigator.
 Number of participating researchers: five.
 Amount funded: 2,000,000 ptas.
- 4.10 "PREVALENCIA DE LA INFECCIÓN POR *Toxoplasma gondii* EN GANADO OVINO Y CAPRINO E IMPORTANCIA DE LA TOXOPLASMOSIS COMO CAUSA DE ABORTO EN ESTAS ESPECIES".
 Type of contract: art. 11 de LRU.
 Funding Company/Administration: Intervet, S.A.
 Participating entities: Animal Health Dept. of the Complutense University of Madrid, Animal Health Dept. of the University of León.
 Length: from 1998 to 1999.
 Main Researcher: Dr. L.M. Ortega Mora y Dra. J. Pereira Bueno.
 Number of participating researchers: five.
 Amount funded: 1,200,000 ptas.

- 4.11 **"OBTENCIÓN Y CARACTERIZACIÓN DE AISLADOS DE *Neospora caninum*".**
Type of contract: art. 83 de la LOU.
Funding Company/Administration: Hipra Laboratories, S.A.
Participating entities: Animal Health Dept. of the Complutense University of Madrid.
Length: from 2002 to 2003.
Main Researcher: Dr. Luis Miguel Ortega Mora.
Number of participating researchers: three.
Amount funded: 16,675.00 €.
- 4.12 **"UTILIZACIÓN DEL CAPRINO EN LA DIVERSIFICACIÓN Y OBTENCIÓN DE VALORES AÑADIDOS A LA ACTIVIDAD GANADERA EN EXTENSIVO".**
Type of contract: art. 83 de la LOU.
Funding Company/Administration: Servicio Regional de Investigación y Desarrollo Agroalimentario. (SERIDA).
Participating entities: Animal Health Dept. of the Complutense University of Madrid and Regional Agro-alimentary Research and Development of Asturias.
Length: 2002.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: three.
Amount funded: 10,532.97 €.
- 4.13. **"UTILIZACIÓN DEL CAPRINO EN LA DIVERSIFICACIÓN Y OBTENCIÓN DE VALORES AÑADIDOS A LA ACTIVIDAD GANADERA EN EXTENSIVO".**
Type of contract: art. 83 de la LOU.
Funding Company/Administration: Servicio Regional de Investigación y Desarrollo Agroalimentario. (SERIDA).
Participating entities: Animal Health Dept. of the Complutense University of Madrid and Regional Agro-alimentary Research and Development of Principado de Asturias.
Length: 2003.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: three.
Amount funded: 10,532.97 €.
- 4.14 **"PATRÓN DE ELIMINACIÓN DE *Neospora caninum* EN EL SEMEN DE TOROS CON INFECCIÓN AGUDA Y CRÓNICA. EVALUACIÓN DEL SEMEN CON VÍA DE TRANSMISIÓN".**
Type of contract: art. 83 de LOU.
Funding Company/Administration: Asociación Española de Criadores de Ganado Vacuno de la Raza Asturiana de los Valles (ASEAVA).
Participating entities: Animal Health Dept. of the Complutense University of Madrid, Asociación Española de Criadores de Ganado Vacuno de la Raza Asturiana de los Valles (ASEAVA), NEIKER, SERIDA.
Length: from 2004 to 2006.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: three.
Amount funded: (contribution to Petri Project).
- 4.15. **"DESARROLLO DE VACUNAS FRENTE A LA INFECCIÓN POR *Neospora caninum* EN EL GANADO BOVINO".**
Type of contract: art. 83 de LOU.
Funding Company/Administration: Hipra Laboratories, S.A.
Participating entities: Animal Health Dept. of the Complutense University of Madrid.
Length: from 2003 to 2006.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: two.
Amount funded: 140,000 €.
- 4.16 **"PATOGENICIDAD DEL AISLADO NC-Spain 1 EN UN MODELO BOVINO GESTANTE".**
Type of contract: art. 83 de LOU.
Funding Company/Administration: Hipra Laboratories, S.A.

- Participating entities: of Animal Health Dept. of the Complutense University of Madrid.
Length: from 2004 to 2005.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: four.
Amount funded: 47,000 €.
- 4.17 "DESARROLLO DE NUEVOS SISTEMAS DIAGNÓSTICOS DE *Neospora caninum* EN EL GANADO BOVINO".
Type of contract: art. 83 de LOU.
Funding Company/Administration: Hipra Laboratories, S.A.
Participating entities: Animal Health Dept. of the Complutense University of Madrid.
Length: from 2004 to 2007.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: five.
Amount funded: 69,000 €.
- 4.18 "PRUEBA DE UNA VACUNA INACTIVADA DE *Neospora caninum* EN UN MODELO MURINO GESTANTE Y EFICACIA DE UNA VACUNA ATENUADA DE *Neospora caninum* EN EL MODELO BOVINO GESTANTE".
Type of contract: art. 83 de LOU.
Funding Company/Administration: Hipra Laboratories, S.A.
Participating entities: Animal Health Dept. of the Complutense University of Madrid.
Length: from 2005 to 2006.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: six.
Amount funded: 256,258 €.
- 4.19 "DESARROLLO DE UN MÉTODO DE DIAGNÓSTICO SEROLÓGICO Y SU APLICACIÓN AL CONOCIMIENTO DE LA PREVALENCIA DE LA INFECCIÓN POR *Besnoitia besnoiti* EN LA COMUNIDAD FORAL DE NAVARRA".
Type of contract: art. 83 de LOU.
Funding Company/Administration: I.T.G. Ganadero S. A. of the Comunidad Foral de Navarra.
Participating entities: Animal Health Dept. of the Complutense University of Madrid.
Length: from 2005 to 2006.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: six.
Amount funded: 13,120.88 €.
- 4.20 "ESTUDIO DE POTENCIA DE DOSIS DE UNA VACUNA VIVA FRENTE A *Neospora caninum* EN UN MODELO MURINO GESTANTE Y NO GESTANTE".
Type of contract: art. 83 de LOU.
Funding Company/Administration: Hipra Laboratories, S.A.
Participating entities: Animal Health Dept. of the Complutense University of Madrid.
Length: 2008.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: six.
Amount funded: 77,239.85 €.
- 4.21 "INMUNOESTIMULADOR EN MODELO MURINO GESTANTE".
Type of contract: art. 83 de LOU.
Funding Company/Administration: Hipra Laboratories, S.A.
Participating entities: Animal Health Dept. of the Complutense University of Madrid; HIPRA, S.A.
Length: 2008.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: six.
Amount funded: 71,093.26 €.

- 4.22 **“INMUNOESTIMULADOR EN MODELO MURINO GESTANTE Y PRUEBA VACUNAL CON LAS PROTEINAS RECOMBINANTES rGRA7”.**
Type of contract: art. 83 de LOU.
Funding Company/Administration: Hipra Laboratories, S.A.
Participating entities: Animal Health Dept. of the Complutense University of Madrid; HIPRA, S.A.
Length: 2009.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: six.
Amount funded: 169.715,07 €.
- 4.23 **“DIAGNÓSTICO DE ENFERMEDADES PARASITARIAS.**
Type of contract: art. 11 de LRU.
Funding Company/Administration: Merck Sharp Dohme Spain S.A.
Participating entities: Animal Health Dept. of the UCM.
Length: 1997.
Main Researcher: Dra. Mercedes Gómez Bautista.
Position: investigator.
Number of participating researchers: five.
- 4.24 **“DIAGNÓSTICO DE ENFERMEDADES PARASITARIAS EN ESPECIES DE RENTA”.**
Type of contract: art. 11 de LRU.
Funding Company/Administration: Pfizer, S.A.
Participating entities: Animal Health Dept. of the UCM.
Length: indefinite period.
Main Researcher: Dra. Mercedes Gómez Bautista.
Position: investigator.
Number of participating researchers: four.
- 4.25 **“DIAGNÓSTICO DE LA TOXOPLASMOSIS Y LA NEOSPOROSIS”.**
Type of contract: Servicio externo.
Funding Company/Administration:
Participating entities: Animal Health Dept. of the UCM.
Length: indefinite period.
Main Researcher: Dr.D Luis. M. Ortega Mora y Dra. Guadalupe Miró Corrales.
Number of participating researchers: four.
- 4.26 **“DETECCIÓN DE PROTOZOOS Y MICROALGAS DE IMPORTANCIA PARA LA SALUD PÚBLICA EN MUESTRAS DE AGUA Y SEDIMENTOS”.**
Type of contract: art. 11 de LRU.
Funding Company/Administration: EMASESA.
Participating entities: Animal Health Dept. and Animal Production Dept. of the Complutense University of Madrid.
Length: from 1998 to 1999.
Main Researcher: Dr. Luis M. Ortega Mora y Dr. Eduardo Costas Costas.
Number of participating researchers: four.
Amount funded: 750,000 ptas.
- 4.27 **“ESTUDIO DE LA CALIDAD BIOSANITARIA DEL AGUA DE ABASTECIMIENTO DE SEVILLA: PROPIEDADES ORGANOLÉPTICAS E INVESTIGACIÓN DE ALGAS TÓXICAS Y PROTOZOOS PATÓGENOS”.**
Type of contract: art. 11 de LRU.
Funding Company/Administration: EMASESA.
Participating entities: Animal Health Dept. and Animal Production Dept. of the Complutense University of Madrid.
Length: 1999.
Main Researcher: Dr. Luis M. Ortega Mora y Dr. Eduardo Costas Costas.
Number of participating researchers: five.
Amount funded: 1,708,791 ptas.

- 4.28 **"DETECCIÓN Y CARACTERIZACIÓN DE MICROALGAS NOCIVAS Y PROTOZOOS PATÓGENOS EN MUESTRAS DE AGUA PRETRATADA DE LA DEPURADORA DE ARACA (AMVISA) Y EN LA RED DE DISTRIBUCIÓN DE LA CIUDAD DE VITORIA".**
Type of contract: art. 83 de la LOU.
Funding Company/Administration: AMVISA.
Participating entities: Animal Health Dept. and Animal Production Dept. of the Complutense University of Madrid.
Length: 2001 y 2002.
Main Researcher: Dr. Luis M. Ortega Mora y Dra. Mercedes Gómez-Bautista.
Number of participating researchers: four.
Amount funded: 28,247.57 €.
- 4.29 **"DETECCIÓN Y CARACTERIZACIÓN DE MICROALGAS NOCIVAS (COMO PRODUCTORAS DE TÓXINAS O DE PROBLEMAS DE SÁPIDOS) Y PROTOZOOS PATÓGENOS EN MUESTRAS DE AGUA PRETRATADA Y TRATADA DE LA PLANTA DE ARACA (AMVISA): ANÁLISIS DE MUESTRAS, INTERCALIBRACIONES Y TRANSFERENCIA DE TECNOLOGÍA".**
Type of contract: art. 83 de la LOU.
Funding Company/Administration: AMVISA.
Participating entities: Animal Health Dept. and Animal Production Dept. of the Complutense University of Madrid.
Length: 2003.
Main Researcher: Dr. Eduardo Costas.
Position: investigator.
Number of participating researchers: four.
Amount funded: 18,000 €.
- 4.30 **"DIAGNÓSTICO DE PROCESOS PARASITARIOS EN ANIMALES DE RENTA".**
Type of contract: art. 83 de LOU.
Funding Company/Administration: Merial Laboratorios S.A.
Participating entities: Animal Health Dept. of the Complutense University of Madrid.
Length: 2003.
Main Researcher: Dra. Mercedes Gómez Bautista y Dr. Luis M. Ortega Mora.
Number of participating researchers: five.
Amount funded: per sample.
- 4.31 **"DETECCIÓN Y CARACTERIZACIÓN DE MICROALGAS NOCIVAS (COMO PRODUCTORAS DE TÓXINAS O DE PROBLEMAS DE SÁPIDOS) Y PROTOZOOS PATÓGENOS EN MUESTRAS DE AGUA RETRATADA Y TRATADA DE LA PLANTA DE ARACA (AMVISA) Y EN LA RED DE DISTRIBUCIÓN DE LA CIUDAD DE VITORIA".**
Type of contract: art. 83 de la LOU.
Funding Company/Administration: AMVISA.
Participating entities: Animal Health Dept. and Animal Production Dept. of the Complutense University of Madrid.
Length: 2004.
Main Researcher: Dr. Eduardo Costas Costas.
Position: investigator.
Number of participating researchers: four.
Amount funded: 12,000 €.
- 4.32 **"DETECCIÓN Y CARACTERIZACIÓN DE MICROALGAS NOCIVAS (COMO PRODUCTORAS DE TÓXINAS O DE PROBLEMAS DE SÁPIDOS) Y PROTOZOOS PATÓGENOS EN MUESTRAS DE AGUA RETRATADA Y TRATADA DE LA PLANTA DE ARACA (AMVISA) Y EN LA RED DE DISTRIBUCIÓN DE LA CIUDAD DE VITORIA".**
Type of contract: art. 83 de la LOU.
Funding Company/Administration: AMVISA.
Participating entities: Animal Health Dept. and Animal Production Dept. of the Complutense University of Madrid.
Length: 2005.
Main Researcher: Dra. Mercedes Gómez Bautista.

Position: investigator.
Number of participating researchers: four.
Amount funded: 12,000 €.

4.33. **"ATLAS DE PARASITOLOGÍA PORCINA"**

Type of contract: art. 83 de LOU.
Funding Company/Administration: Industrial Veterinaria, S.A.
Participating entities: Animal Health Dept. of the Complutense University of Madrid.
Length: from 2005 to 2006.
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: seven.
Amount funded: 1,200 €.

4.34 **DIAGNÓSTICO Y ASESORÍA EN SALUD VETERINARIA Y ZONOSIS".**

Type of contract: art. 83 de LOU.
Funding Company/Administration: External Services
Participating entities: Research Group of Veterinary Health and Zoonoses (SALUVET) of the UCM.
Length: Indefinite
Main Researcher: Dr. Luis M. Ortega Mora.
Number of participating researchers: twelve.

5. Patents

5.1 Inventors (in order of signature): L.M. ORTEGA MORA, E. COLLANTES FERNÁNDEZ, J. REGIDOR CERRILLO, I. FERRE PÉREZ.

Title: "Procedimiento para la cuantificación y valoración de la viabilidad de *Neospora caninum* en muestras de semen bovino".

Application number: P200301762; PCT/ES2004/000347.

Priority country: Spain.

Priority date: 25 de July de 2003.

Countries where it is licensed for use: AT Austria, BE, BG Belgium, CH Switzerland, CY Chipre, CZ Chequia, DE Germany, DK Dinamarca, EE Eslovaquia, ES Spain, FI Finlandia, FR France, GB Gran Bretaña, GR Greece, HU Hungría, IE Ireland, IT Italy, LI Lituania, LU Letonia, MC, NL Holland, PL Poland , PT Portugal, RO Rumanía, SE Sweden, SI, SK, TR Turquía.

5.2 Inventors (in order of signature): L.M. ORTEGA MORA, A. FERNÁNDEZ GARCÍA.

Title: "Uso del gen NcSAG4 para el diagnóstico y prevención de la neosporosis, y como marcador para el análisis de la patogenia".

Application number: P200302869; PCT/32004/000529.

Priority country: Spain.

Priority date: 3 December 2003.

Countries where it is licensed for use: Spain, Portugal, Greece, UK, Ireland, Germany, Austria, Belgium, Holland, France, Italy, Dinamarca, Poland , Chequia, Eslovaquia, Hungría, Brasil, Méjico, Canadá, USA, China, Japón, India, Rusia, Turquía, Australia y New Zealand.

Company in charge of the license: Hipra Laboratories, S.A.

5.3 Inventors (in order of signature): L.M. ORTEGA MORA, E. COLLANTES FERNÁNDEZ, S. ROJO MONTEJO, G. ÁLVAREZ GARCÍA, J. REGIDOR CERRILLO.

Title: "Aislado avirulento de *Neospora caninum* y sus usos".

Application number: P200503163.

Priority country: Spain.

Priority date: 23 December de 2005.

Company in charge of the license: Hipra Laboratories, S.A.

- 5.4 Inventors (in order of signature): L.M. ORTEGA MORA, V. RISCO CASTILLO, A. FERNÁNDEZ GARCÍA.
 Title: "Uso del gen *NcBSR4* para el diagnóstico y prevención de la neosporosis y como marcador para el análisis de la patogenicia".
 Application number: P200601262.
 Priority country: Spain.
 Priority date: 17 de May 2006.
- 5.5 Inventors (in order of signature): ORTEGA-MORA, L.M., REGIDOR-CERRILLO J., AGUADO MARTÍNEZ A., COLLANTES-FERNÁNDEZ, E. & ADURIZ G.
 Title: "Uso de un nuevo aislado de *Neospora caninum* para el desarrollo de pruebas de diagnóstico y para la fabricación de productos para el tratamiento y prevención de la Infección causada por *Neospora*".
 Application number: P200701978
 Priority country: País de origen
 Priority date: 13 de July de 2007.

6. Stays in foreign and national centers.

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|---|
| Key: D = doctorate, P = post-doctoral, I = invited, C = contracted, O = other (specific). |
|---|

6.1- In foreign centers

- 6.1.1. Center: Division of Infectious Diseases, Health Sciences Center, State University of New York.
 Location: Stony Brook (Nueva York). Country: USA
 Date: 1989. Length: 3 months. Key: D.
 Subject: Development of monoclonal antibodies against *Cryptosporidium parvum*.
- 6.1.2. Center: Department of Parasitology, Moredun Research Institute.
 Location: Edinburgh. Country: Scotland.
 Date: from 1991 to 1992. Length: 11 months. Key: P.
 Subject: Immune response mechanisms against the infection by *Cryptosporidium parvum* in sheep (humoral response and natural immunity).
- 6.1.3. Center: Department of Parasitology, Moredun Research Institute.
 Location: Edinburgh. Country: Scotland.
 Date: 1993. Length: 3 months. Key: P.
 Subject: Immune response mechanisms against the infection by *Cryptosporidium parvum* in sheep (cellular response).
- 6.1.4. Center: Department of Immunobiology, Moredun Research Institute.
 Location: Edinburgh. Country: Scotland.
 Date: 1997. Length: 2 weeks. Key: O (collaboration project).
 Subject: Development of a PCR technique for the diagnosis of *Neospora caninum* in fetal tissues.
- 6.1.5. Center: Veterinary Faculty de la Universidad Nacional Mayor de San Marcos.
 Location: Lima. Country: Perú.
 Date: 2001. Length: 10 days. Key: O (collaboration project).
 Subject: Detection of toxoplasmosis and neosporosis in Southamerican camelids.
- 6.1.6. Center: Universidad Federal de Goiás.
 Location: Goiás. Country: Brasil.
 Date: 2005. Length: 1 month. Key: O (collaboration project).

Subject: Bovine Neosporosis: prevalence, transmission and biologic variability between isolates.

6.2.- In Spanish centers.

- 6.2.1. Center: Instituto Carlos III, Departamento de Parasitología.
Location: Majadahonda, Madrid.
Date: 1994. Length: 2 weeks. Key: O (Investigator).
Subject: Training in molecular biology techniques for Parasitology.
- 6.2.2. Center: Proinserga S.A.
Location: Segovia
Date: 1998. Length: 1 month. Key: I.
Subject: Diagnosis of swine diseases.
- 6.2.3. Center: B.A.E. Gabriel de Castilla.
Location: Isla Decepción (Antártida).
Date: 2006. Length: 1 month. Key: O (Investigator).
Subject: Gastrointestinal pathogens in Antarctic phocids and otariids.

7. Contributions to Meetings

7.1 Invited presentations

- 7.1.1. Author/s: **L.M. ORTEGA MORA.**
Title: "Cryptosporidiosis in sheep and goats: a general review".
Type of participation: International, invited speech.
Meeting: Sheep Veterinary Society. 1999 Spring Scientific Meeting.
Place of Meeting: Bilbao-Jaca, Spain. 8-10 May 1999.
- 7.1.2. Author/s: **L.M. ORTEGA MORA.**
Title: "Programas de desparasitación en porcino, valoración y eficacia".
Type of participation: National, invited speech.
Meeting: XX Symposium Anaporc.
Place of Meeting: Talavera de la Reina, Spain. 10-11 November 1999.
- 7.1.3. Author/s: **L.M. ORTEGA MORA.**
Title: "La neosporosis y su relación con el aborto bovino".
Type of participation: National, invited speech.
Meeting: IV Annual Symposium of Veterinary Laboratory Diagnosticians.
Place of Meeting: Lugo, Spain. 25-26 November 1999.
- 7.1.4. Author/s: **L.M. ORTEGA MORA, E. COLLANTES**
Title: "Aplicaciones de la biología molecular a la detección de la infección por *Neospora caninum*".
Type of participation: International, invited speech.
Meeting: V Annual Symposium of Veterinary Laboratory Diagnosticians .
International Meeting of Producción y Sanidad Animal. Expoaviga 2000.
Place of Meeting: Barcelona, Spain. 7-10 November 2000.
- 7.1.5. Author/s: **L.M. ORTEGA MORA, E. COLLANTES, G. ÁLVAREZ, J. PEREIRA.**
Title: "La neosporosis del ganado bovino: una enfermedad emergente".
Type of participation: International, invited speech.
Meeting: VI Encontros Veterinarios Galegos, III Encontros Veterinarios Galaico-Portugueses.
Place of Meeting: Santiago de Compostela, Spain. 1-2 December 2001.
- 7.1.6. **M. GÓMEZ BAUTISTA, A. FERNÁNDEZ GARCÍA, L.M. ORTEGA MORA.**
Title: "*Neospora* and neosporosis: achievements and perspectives in diagnosis".
Type of participation: International, invited speech.
Meeting: "Neospora and neosporosis: achievements and perspectives" organised by Cost Action, 854-Polish Academy of Sciences
Place of Meeting: Varsovia, Poland . 2 September 2005.
- 7.1.7. **G. ADURIZ, L.M. ORTEGA MORA.**
Title: "Nuevas perspectivas en el diagnóstico laboratorial de las protozoosis titulares reproductivas en los rumiantes domésticos".
Type of participation: National, invited speech.
Meeting: X Annual Symposium of Veterinary Laboratory Diagnosticians.
Place of Meeting: Palma de Mallorca, Spain. 22- 23 September 2005.
- 7.1.8. **A. FERNÁNDEZ GARCÍA, L.M. ORTEGA MORA.**
Title: "Diagnosis of bovine neosporosis: recent progress and recommendations for laboratories and practitioners".
Type of participation: International, invited speech.
Meeting: The 20th International Conference of the World Association for the Advancement of Veterinary

Parasitology.

Place of Meeting: Christchurch, New Zealand. 16-20 October 2005.

7.1.9 F.J. CONRATHS, L.M. ORTEGA MORA.

Title: "Options for control of protozoal abortion in ruminants".

Type of participation: International, invited speech.

Meeting: The 20th International Conference of the World Association for the Advancement of Veterinary Parasitology.

Place of Meeting: Christchurch, New Zealand. 16-20 October 2005

7.1.10 L.M. ORTEGA MORA, A. AGUADO MARTÍNEZ, A. FERNÁNDEZ GARCÍA, G. ÁLVAREZ GARCÍA.

Title: "Neosporosis bovina: nuevos avances en el conocimiento de la transmisión y el control".

Type of participation: International, invited speech.

Meeting: XI Meeting of Anembe about Bovine Medicine.

Place of Meeting: Zaragoza, Spain. 3-6 May 2006.

7.1.11 L.M. ORTEGA MORA, A. AGUADO MARTÍNEZ, G. ÁLVAREZ GARCÍA.

Title: "*Toxoplasma gondii* in sheep and goats in Spain."

Type of participation: International, invited speech.

Meeting: Toxo & Food 2006.

Place of Meeting: Palermo, Italy. 8-10 May 2006.

7.1.12 L.M. ORTEGA MORA.

Title: "Diagnosis of bovine neosporosis: present and future".

Type of participation: International, invited speech.

Meeting: 11th International Meeting of Parasitology.

Place of Meeting: Glasgow, Scotland, UK. 6-1 August 2006.

7.1.13 L.M. ORTEGA MORA.

"Alternativas en el control de la neosporosis bovina: aplicación en los programas de la ADSG"

Type of participation: International, invited speech.

Meeting: XII Meeting of Anembe about Bovine Medicine.

Place of Meeting: Oviedo, Spain. 25 y 26 May 2007.

7.1.14 L.M. ORTEGA MORA.

"Fallo reproductivo temprano por tricomonosis y campilobacteriosis en vacuno extensivo"

Type of participation: International, invited speech.

Meeting: XIII Meeting of Anembe about bovine Medicine.

Place of Meeting: Salamanca, Spain. 9 y 10 May 2008.

7.2 Chairman of sessions.

7.2.1. Author/s: L.M. ORTEGA MORA, F.J. CONRATHS.

Title: "Session: Field problems in animal coccidiosis."

Type of participation: Chairperson.

Meeting: 1999 Annual Workshop and Meetings of Working Groups (COST 820 Vaccines against Animal Coccidiosis).

Place of Meeting: Interlaken, Switzerland. 11-14 November 1999.

7.2.2. Author/s: L.M. ORTEGA MORA.

Title: "Diagnosis".

Type of participation: Chairperson.

Meeting: Joint meeting of Working group 3 (Diagnosis) and 4 (Epidemiology, risk assessment, economics and control), (COST 854 Protozoal reproduction losses in farm ruminants).

Place of Meeting: Rheinsberg, Germany, 26-28 May 2003.

- 7.2.3 **L.M. ORTEGA MORA.**
Title: "Sanidad Animal".
Type of participation: Moderator.
Meeting: III Meeting of Veterinary and Biomedic Sciences.
Place of Meeting: Madrid, Spain, abril 2004.
- 7.2.4 **L.M. ORTEGA MORA, J.P. DUBEY.**
Title: "Diagnosis".
Type of participation: Chairperson.
Meeting: COST 854-Annual Conference, Protozoal reproduction losses in farm ruminants).
Place of Meeting: Liverpool, UK, 2-6 September 2004.
- 7.2.5 **L.M. ORTEGA MORA, D. WILLIAMS.**
Title: "Diagnosis".
Type of participation: Chairperson.
Meeting: 2005 Annual Meeting, COST-Action 854, Protozoal reproduction losses in farm ruminants.
Place of Meeting: Varsovia, Poland . 2 September 2005.
Place of Meeting: Varsovia, Poland , 29 de August-1 September 2005.
- 7.2.6 **G. ADURIZ, L.M. ORTEGA MORA.**
Title: "Nuevas perspectivas en el diagnóstico laboratorial de las protozoosis titulares reproductivas en los rumiantes domésticos".
Type of participation: Moderator.
Meeting: X Anual Symposium of of Veterinary Laboratory Diagnosticians.
Place of Meeting: Palma de Mallorca, Spain. 22- 23 September 2005.
- 7.2.7 **L.M. ORTEGA MORA, F.J. CONRATHS.**
Title: "Diagnosis and control of protozoan-associated abortion in ruminants".
Type of participation: Chairperson.
Meeting: The 20th International Conference of the World Association for the Advancement of Veterinary Parasitology.
Place of Meeting: Christchurch, New Zealand. 16-20 October 2005.
- 7.2.8 **F.J. CONRATHS, L.M ORTEGA MORA.**
Title: "Options for control of protozoal abortion in ruminants".
Type of participation: Chairperson.
Meeting: The 20th International Conference of the World Association for the Advancement of Veterinary Parasitology.
Place of Meeting: Christchurch, New Zealand. 16-20 October 2005
- 7.2.9 **D. BUXTON, L.M ORTEGA MORA.**
Title: "Third Session".
Type of participation: Chairperson.
Meeting: Toxo & Food 2006.
Place of Meeting: Palermo, Italy. 8-10 May 2006.
- 7.2.10 **L.M ORTEGA MORA.**
Title: "Diagnosis".
Type of participation: Chairperson.
Meeting: COST 854-Annual Conference, Protozoal reproduction losses in farm ruminants.
Place of Meeting: Lieja, Belgium. 16-20 September 2006.
- 7.2.11 **L.M. ORTEGA MORA.**
Title: "Sanidad Animal".

Type of participation: Moderator.
Meeting: VI Meeting of Veterinary and Biomedical Sciences.
Place of Meeting: Madrid, abril de 2007.

7.3 Communications in meetings

- 7.3.1. F.A. ROJO VAZQUEZ, L.M. ORTEGA MORA, A. RODENAS, J. GUERRERO.
Title: "Prevalence of infection by *Dirofilaria immitis* in Spain".
Type of participation: International, oral communication.
Meeting: 13th World Congress of the World Small Animal Veterinary Association.
Place of Meeting: Barcelona, Spain. 6-9 October 1988.
- 7.3.2. J. GUERRERO, C. GENCHI, A. VEZZONI, J. DUCOS DE LAHITTE, J. BUSSIERAS, F.A. ROJO, L.M. ORTEGA MORA, A. RÓDENAS, G.M. BULMAN, M.H. LARSON, N.V. LABARTHE, T. CHARLES, E.L. BORDIN.
Title: "Distribution of *Dirofilaria immitis* in selected areas of Europe and South America".
Type of participation: International, oral communication.
Meeting: Proceedings of the Heartworm Symposium '89.
Place of Meeting: Charleston, South Carolina, USA 17-19 March de 1989.
- 7.3.3. J.M. TRONCOSO, L.M. ORTEGA MORA, A. GASS, M. GOMEZ BAUTISTA, F.A. ROJO VAZQUEZ.
Title: "Valoración de la especificidad y sensibilidad de diferentes técnicas en la detección de ooquistes de *Cryptosporidium* sp".
Type of participation: International, poster.
Meeting: VI National Meeting and Iberian of Parasitology.
Place of Meeting: Cáceres, Spain. 25-29 September 1989.
- 7.3.4. J.M. TRONCOSO, L.M. ORTEGA MORA, M. GOMEZ BAUTISTA, F.A. ROJO VAZQUEZ.
Title: "Patología de la cryptosporidiosis en corderos".
Type of participation: International, poster.
Meeting: VI National Meeting National and Iberian of Parasitology.
Place of Meeting: Cáceres, Spain. 25-29 September 1989.
- 7.3.5. M. GOMEZ BAUTISTA, L.M. ORTEGA MORA, A. GASS, J.M. TRONCOSO, F.A. ROJO VAZQUEZ.
Title: "Epizootiología de la cryptosporidiosis en rumiantes (terneros, corderos y cabritos)".
Type of participation: International, poster.
Meeting: VI National Meeting y Iberian of Parasitology.
Place of Meeting: Cáceres, Spain. 25-29 September de 1989.
- 7.3.6. L.M. ORTEGA MORA, J.M. TRONCOSO, M. GOMEZ BAUTISTA, F.A. ROJO VAZQUEZ.
Title: "Humoral immune response in *Cryptosporidium parvum* infection in lambs".
Type of participation: International, poster.
Meeting: VII International Congress of Parasitology.
Place of Meeting: París, France. 20-24 August 1990.
- 7.3.7. L.M. ORTEGA MORA, J.M. TRONCOSO, F.A. ROJO VAZQUEZ, M. GOMEZ BAUTISTA.
Title: "Determinación de los antígenos del ooquiste de *Cryptosporidium parvum* reconocidos por los diferentes isotipos de inmunoglobulinas específicas (IgG, IgM e IgA) en corderos".
Type of participation: International, oral communication.
Meeting: I International Meeting of South-western European Associations of Parasitology.
Place of Meeting: Valencia, Spain. 1-5 July 1991.
- 7.3.8. J.M. TRONCOSO, L.M. ORTEGA MORA, F.A. ROJO VAZQUEZ, M. GOMEZ BAUTISTA.
Title: "Evaluación de la resistencia a la reinfección por *Cryptosporidium parvum* en corderos que han padecido cryptosporidiosis neonatal".
Type of participation: International, poster.

Meeting: I International Meeting of South-western European Associations of Parasitology.
Place of Meeting: Valencia, Spain. 1-5 July 1991.

- 7.3.9. L.M. ORTEGA MORA, J.M. TRONCOSO, E. MALMIERCA, F.A. ROJO VAZQUEZ, M. GOMEZ BAUTISTA.
Title: "Valoración por IFI de la respuesta inmune cruzada frente a *Cryptosporidium parvum* y otros Eimeriina parásitos ovinos (*Eimeria* spp., *Sarcocystis* sp. y *Toxoplasma gondii*)".
Type of participation: International, poster.
Meeting: I International Meeting of South-western European Associations of Parasitology.
Place of Meeting: Valencia, Spain. 1-5 July 1991.
- 7.3.10. J.M. TRONCOSO, L.M. ORTEGA MORA, E. MURILLO, F.A. ROJO VAZQUEZ, M. GOMEZ BAUTISTA.
Title: "Valoración de la capacidad infectante y antigenicidad de ooquistes de *Cryptosporidium parvum* aislados de la especie ovina y sometidos a un método de purificación".
Type of participation: International, poster.
Meeting: I International Meeting of South-western European Associations of Parasitology.
Place of Meeting: Valencia, Spain. 1-5 July 1991.
- 7.3.11. J.M. TRONCOSO, L.M. ORTEGA MORA, E. MURILLO, F.A. ROJO VÁZQUEZ, M. GOMEZ BAUTISTA.
Title: "Análisis comparado de la cryptosporidiosis experimental y natural en corderos".
Type of participation: International, poster.
Meeting: I International Meeting of South-western European Associations of Parasitology.
Place of Meeting: Valencia, Spain. 1-5 July 1991.
- 7.3.12. J.M. TRONCOSO, L.M. ORTEGA MORA, E. MURILLO, F.A. ROJO VAZQUEZ, M. GOMEZ BAUTISTA.
Title: "Estudio de las lesiones y de la localización intestinal en la infección por *Cryptosporidium parvum* en pequeños rumiantes".
Type of participation: International, poster.
Meeting: I International Meeting of South-western European Associations of Parasitology.
Place of Meeting: Valencia, Spain. 1-5 July 1991.
- 7.3.13. L.M. ORTEGA MORA, J.M. TRONCOSO, F.A. ROJO VAZQUEZ, M. GOMEZ BAUTISTA.
Title: "Kinetics of IgG, IgM and IgA in lambs naturally and experimentally infected with *Cryptosporidium parvum*".
Type of participation: International, poster.
Meeting: Vth European Multicolloquium of Parasitology.
Place of Meeting: La Haya, Holland. 7-11 September 1992.
- 7.3.14. R. DIEGO, A. CARVAJAL, L.M. ORTEGA MORA, I. LANZA, P. RUBIO, P. CARMENES.
Title: "Detección de anticuerpos séricos generados contra *Serpulina hyodysenteriae*".
Type of participation: National, oral communication.
Meeting: XIV National Meeting of Microbiology.
Place of Meeting: Zaragoza, Spain. 8-11 September 1993.
- 7.3.15. I. FERRE, L.M. ORTEGA MORA, F.A. ROJO VAZQUEZ.
Title: "Epidemiología de las trematodosis hepáticas ovinas en la provincia de León".
Type of participation: International, poster.
Meeting: III Iberian Meeting of Parasitology.
Place of Meeting: Lisboa, Portugal. 4-8 October 1993.
- 7.3.16. L.M. ORTEGA MORA, M. LUZÓN, S. WRIGHT.
Title: "Resistencia adquirida con la edad en la criptosporidiosis ovina".
Type of participation: International, oral communication.
Meeting: III Iberian Meeting of Parasitology.
Place of Meeting: Lisboa, Portugal. 4-8 October 1993.
- 7.3.17. M.J. MATOS FERNANDEZ, J. PEREIRA BUENO, L.M. ORTEGA MORA, M. PILAR IZQUIERDO, I. FERRE, F.A. ROJO VAZQUEZ.

- Title: "Prevalencia de la infección por *Cryptosporidium parvum* en corderos, cabritos y terneros en la provincia de León".
 Type of participation: International, poster.
 Meeting: III Iberian Meeting of Parasitology.
 Place of Meeting: Lisboa, Portugal. 4-8 October 1993.
- 7.3.18. M. PILAR IZQUIERDO, L.M. ORTEGA MORA, J. PEREIRA BUENO, F.A. ROJO VAZQUEZ.
 Title: "Participación de *Cryptosporidium parvum* en brotes de diarrea en corderos en el NO de Castilla y León".
 Type of participation: International, poster.
 Meeting: Iberian Meeting of Parasitology.
 Place of Meeting: Lisboa, Portugal. 4-8 October 1993.
- 7.3.19. J.M. TRONCOSO, L.M. ORTEGA MORA, F.A. ROJO VAZQUEZ, M. GOMEZ BAUTISTA.
 Title: "Significación de la infección *Cryptosporidium parvum*/*Eimeria* spp. en la diarrea neonatal en ovino".
 Type of participation: International, poster.
 Meeting: III Iberian Meeting of Parasitology.
 Place of Meeting: Lisboa, Portugal. 4-8 October 1993.
- 7.3.20. R. DIEGO, L.M. ORTEGA MORA, I. LANZA, A. CARVAJAL, P. RUBIO, P. CARMENES.
 Title: "Characterization of the antibody response in serum, colostrum and milk of sows vaccinated with an inactivated swine dysentery vaccine and passive transfer of antibodies to the piglets".
 Type of participation: International, poster.
 Meeting: Proceedings of the XIII International Pig Veterinary Society Congress.
 Place of Meeting: Bangkok, Thailand. December de 1993.
- 7.3.21. N. DIEZ BAÑOS, L.M. ORTEGA MORA, B. MARTINEZ GONZALEZ, F.A. ROJO VAZQUEZ.
 Title: "Eficacia de la moxidectina al 1% inyectable frente a infecciones naturales por *Dictyocaulus filaria* en la oveja".
 Type of participation: National, poster.
 Meeting: X Annual Meeting of Spanish Parasitologists.
 Place of Meeting: Sitges, Barcelona, Spain. 23-24 September 1994.
- 7.3.22. N. DIEZ BAÑOS, J. PEREIRA BUENO, I. FERRE, M.R. HIDALGO ARGÜELLO, L.M. ORTEGA MORA, F.A. ROJO VAZQUEZ.
 Title: "Efficacy of moxidectin 0.2% oral drench against natural infection with *Dictyocaulus filaria* in sheep".
 Type of participation: International, poster.
 Meeting: VIII International Congress of Parasitology.
 Place of Meeting: Esmirna, Turquía. 10-14 October 1994.
- 7.3.23. N. DIEZ BAÑOS, J. PEREIRA BUENO, L.M. ORTEGA MORA, I. FERRE, M.R. HIDALGO ARGÜELLO, J. ROJO VAZQUEZ, F.A. ROJO VAZQUEZ.
 Title: "Controlled efficacy trial of moxidectin 0.2% oral drench against artificially acquired gastrointestinal nematode infections in sheep".
 Type of participation: International, poster.
 Meeting: VIII International Congress of Parasitology.
 Place of Meeting: Esmirna, Turquía. 10-14 October 1994.
- 7.3.24. L.M. ORTEGA MORA, N. DIEZ BAÑOS, B. MARTINEZ GONZALEZ, F.A. ROJO VAZQUEZ.
 Title: "Controlled field efficacy of injectable moxidectin against naturally acquired psoroptic mange in sheep".
 Type of participation: International, poster.
 Meeting: VIII International Congress of Parasitology.
 Place of Meeting: Esmirna, Turquía. 10-14 October 1994.
- 7.3.25. J.M. PEREIRA BUENO, L.M. ORTEGA MORA, R. GONZÁLEZ PANIELLO, E.N. REGUERA DE CASTRO, F. REYERO FERNÁNDEZ.
 Title: "Parasitofauna del jabalí en la montaña de Riaño (León, Spain)".
 Type of participation: National, poster.

Meeting: I Meeting of Castilla y León's Veterinarians.
Place of Meeting: León, Spain. 27-29 October 1994.

- 7.3.26. F.A. ROJO VÁZQUEZ, L.M. ORTEGA MORA, I. FERRE.
Title: "Trematodosis hepáticas ovinas en la provincia de León. Propuesta para su profilaxis".
Type of participation: National, poster.
Meeting: I Meeting of Castilla y León's Veterinarians.
Place of Meeting: León, Spain. 27-29 October 1994.
- 7.3.27. L.M. ORTEGA MORA, J.M. PEREIRA BUENO, M. PILAR IZQUIERDO, M.J. MATOS FERNÁNDEZ, F.A. ROJO VÁZQUEZ.
Title: "Epidemiología de la criptosporidiosis ovina y caprina en la provincia de León".
Type of participation: National, poster.
Meeting: I Meeting of Castilla y León's Veterinarians.
Place of Meeting: León, Spain. 27-29 October 1994.
- 7.3.28. M.A. QUINTANILLA GOZALO, L.M. ORTEGA MORA, S. WRIGHT, J. PEREIRA BUENO, F.A. ROJO VÁZQUEZ.
Title: "Changes in the intestinal mucus during *Cryptosporidium parvum* infection in lambs".
Type of participation: International, poster.
Meeting: Spring Meeting, British Society of Parasitology.
Place of Meeting: Edimburgo, Scotland, UK. 10-12 April 1995.
- 7.3.29. J.F. GARCIA MARIN, M.J. GARCIA IGLESIAS, M.C. FERRERAS, M. GUTIERREZ, L.M. ORTEGA MORA, I. LANZA, V. PEREZ PEREZ, A. ESCUDERO.
Title: "Ileitis terminal en corderos: aspectos lesionales y etiológicos".
Type of participation: National, poster.
Meeting: VII Meeting of Spanish Patology Society.
Place of Meeting: León, Spain. 7-9 June 1995.
- 7.3.30. T. LÓPEZ URBINA, A.E. GONZÁLEZ, L.M. ORTEGA MORA, M. FERNÁNDEZ, M.A. ROMERO, C. GAVIDIA, F.A. ROJO VÁZQUEZ.
Title: "Prevalencia de la criptosporidiosis y de la diarrea neonatal en alpacas".
Type of participation: International, poster.
Meeting: IV Iberian Meeting of Parasitology.
Place of Meeting: Santiago de Compostela, Spain. 24-28 July 1995.
- 7.3.31. S. MARTÍN GÓMEZ, L.M. ORTEGA MORA, M. PILAR IZQUIERDO, F.A. ROJO VÁZQUEZ, J. PEREIRA BUENO.
Title: "Prevalencia de la infección por *Cryptosporidium parvum* en terneros en la provincia de León".
Type of participation: International, poster.
Meeting: IV Iberian Meeting of Parasitology.
Place of Meeting: Santiago de Compostela, Spain. 24-28 July 1995.
- 7.3.32. S. MARTÍN GÓMEZ, L.M. ORTEGA MORA, M. PILAR IZQUIERDO, F.A. ROJO VÁZQUEZ, J. PEREIRA BUENO.
Title: "Factores epidemiológicos asociados a la infección por *Cryptosporidium parvum* en corderos".
Type of participation: International, poster.
Meeting: IV Iberian Meeting of Parasitology.
Place of Meeting: Santiago de Compostela, Spain. 24-28 July 1995.
- 7.3.33. J.A. REQUEJO FERNÁNDEZ, J. PEREIRA BUENO, M. PILAR IZQUIERDO, F.A. ROJO VÁZQUEZ, L.M. ORTEGA MORA.
Title: "Papel epidemiológico de los animales adultos en la infección por *Cryptosporidium parvum* en la especie ovina: eliminación de ooquistes en el parto".
Type of participation: International, poster.
Meeting: IV Iberian Meeting of Parasitology.
Place of Meeting: Santiago de Compostela, Spain. 24-28 July 1995.

- 7.3.34. M.A. QUINTANILLA GOZALO, S.E. WRIGHT, J. PEREIRA BUENO, F.A. ROJO VÁZQUEZ, L.M. ORTEGA MORA.
Title: "Características del mucus intestinal en la infección por *Cryptosporidium parvum* en corderos: títulos de anticuerpos (IgA, IgG e IgM) y antígenos reconocidos por las IgA locales".
Type of participation: International, poster.
Meeting: IV Iberian Meeting of Parasitology.
Place of Meeting: Santiago de Compostela, Spain. 24-28 July 1995.
- 7.3.35. M.A. QUINTANILLA GOZALO, S.E. WRIGHT, J. PEREIRA BUENO, F.A. ROJO VÁZQUEZ, L.M. ORTEGA MORA.
Title: "Características del mucus intestinal en la infección por *Cryptosporidium parvum* en corderos: producción de mucus y concentración de glucoproteínas".
Type of participation: International, poster.
Meeting: IV Iberian Meeting of Parasitology.
Place of Meeting: Santiago de Compostela, Spain. 24-28 July 1995.
- 7.3.36. I. FERRE, L.M. ORTEGA MORA, F.A. ROJO-VÁZQUEZ.
Title: "Cinética sérica y biliar de IgG e IgA específicas en el curso de la fasciolosis subclínica en la oveja".
Type of participation: International, poster.
Meeting: IV Iberian Meeting of Parasitology.
Place of Meeting: Santiago de Compostela, Spain. 24-28 July 1995.
- 7.3.37. Author/s: M.A. QUINTANILLA GOZALO, S. WRIGHT, J. PEREIRA BUENO, F.A. ROJO VÁZQUEZ, L.M. ORTEGA MORA.
Title: "Changes in the intestinal mucus during infection by *Cryptosporidium parvum* in lambs".
Type of participation: International, oral communication.
Meeting: 1995 Annual Workshop and Meetings of Working Groups (COST 820 Vaccines against Animal Coccidiosis).
Place of Meeting: Praga, Checoslovaquia. 14-16 September 1995.
- 7.3.38. S. MARTÍN GÓMEZ, R. GONZÁLEZ PANIELLO, J. PEREIRA BUENO, L.M. ORTEGA MORA.
Title: "Prevalence of *Tritrichomonas foetus* infection in beef bulls in Northwestern Spain".
Type of participation: International, poster.
Meeting: VII European Multicolloquium of Parasitology.
Place of Meeting: Parma, Italy. 2-6 September 1996.
- 7.3.39. M. PILAR IZQUIERDO, J. PEREIRA BUENO, F.A. ROJO VÁZQUEZ, L.M. ORTEGA MORA.
Title: "Comparative evaluation of several techniques for detection of *Cryptosporidium parvum* oocysts in ruminants faeces".
Type of participation: International, poster.
Meeting: VII European Multicolloquium of Parasitology.
Place of Meeting: Parma, Italy. 2-6 September 1996.
- 7.3.40. M.T. LÓPEZ URBINA, M. PILAR IZQUIERDO, L.M. ORTEGA MORA, A.E. GONZÁLEZ ZARIQUIEY.
Title: "A method for purification of *Cryptosporidium* oocysts from lambs faeces".
Type of participation: International, poster.
Meeting: VII European Multicolloquium of Parasitology.
Place of Meeting: Parma, Italy. 2-6 September 1996.
- 7.3.41. M.A. QUINTANILLA GOZALO, J. PEREIRA BUENO, A. SEIJAS CARBALLEDO, R. DE LA FUENTE, L.M. ORTEGA MORA.
Title: "Seroprevalencia de anticuerpos frente a *Neospora* sp. en un rebaño bovino con antecedentes de aborto".
Type of participation: National, oral communication.
Meeting: IV International Meeting of Bovine Medicine.
Place of Meeting: Gijón, Spain. 2-6 October 1996.
- 7.3.42. J.A. REQUEJO FERNÁNDEZ, J. PEREIRA BUENO, M. PILAR IZQUIERDO, F.A. ROJO VÁZQUEZ, L.M. ORTEGA MORA.

- Title: "Periparturient rise in ovine cryptosporidiosis".
 Type of participation: International, oral communication.
 Meeting: COST 820 Vaccines against Animal Coccidiosis. WG 3 Meeting.
 Place of Meeting: Bruselas, Belgium. 11-12 April 1997.
- 7.3.43. M.A. QUINTANILLA GOZALO, J. PEREIRA BUENO, V. PÉREZ PÉREZ, L.M. ORTEGA MORA.
 Title: "*Neospora caninum* infection in dairy herds in NW Spain".
 Type of participation: International, oral communication.
 Meeting: VII International Coccidiosis Conference and European Union COST820 Annual Workshop.
 Place of Meeting: Keble College, Oxford, UK. 1-5 September 1997.
- 7.3.44. A. ALONSO, M.A. QUINTANILLA GOZALO, M.A. RODRÍGUEZ, J. PEREIRA BUENO, L.M. ORTEGA MORA G. MIRÓ.
 Title: "Seroprevalencia de la infección por *Toxoplasma gondii* en gatos vagabundos en el área de Madrid".
 Type of participation: International, poster.
 Meeting: V Iberian Meeting of Parasitology.
 Place of Meeting: Evora, Portugal. 6-10 October 1997.
- 7.3.45. J.A. REQUEJO FERNÁNDEZ, A. MARTÍNEZ, A. MEANA, F.A. ROJO VÁZQUEZ, K. OSORO, L.M. ORTEGA MORA.
 Title: "Eficacia de tres antihelmínticos frente a nematodos gastrointestinales en cabras cachemira: resistencia a bencimidazol-carbamatos".
 Type of participation: International, poster.
 Meeting: V Iberian Meeting of Parasitology.
 Place of Meeting: Evora, Portugal. 6-10 October 1997.
- 7.3.46. M.A. QUINTANILLA GOZALO, B. GARCÍA VILLAZALA, J. PEREIRA BUENO, L.M. ORTEGA MORA.
 Title: "Seroprevalencia de la infección por *Toxoplasma gondii* en ganado caprino en el noroeste de Spain".
 Type of participation: International, poster.
 Meeting: V Iberian Meeting of Parasitology.
 Place of Meeting: Evora, Portugal. 6-10 October 1997.
- 7.3.47. M.A. QUINTANILLA GOZALO, B. GARCÍA VILLAZALA, J. PEREIRA BUENO, L.M. ORTEGA MORA.
 Title: "Seroprevalencia de la infección por *Toxoplasma gondii* en ganado ovino en el noroeste de Spain".
 Type of participation: International, poster.
 Meeting: V Iberian Meeting of Parasitology.
 Place of Meeting: Evora, Portugal. 6-10 October 1997.
- 7.3.48. A. QUINTANILLA GOZALO, J. PEREIRA BUENO, E. TABARÉS, E.A. INNES, R. GONZÁLEZ-PANIELLO, L.M. ORTEGA MORA.
 Title: "Seroprevalence of *Neospora caninum* infection in dairy and beef cattle in northern Spain".
 Type of participation: International, oral communication.
 Meeting: 1998 Annual Workshop and Meetings of Working Groups (COST 820 Vaccines against Animal Coccidiosis)
 Place of Meeting: Toledo, Spain. 22-25 October 1998.
- 7.3.49. M.A. QUINTANILLA GOZALO, J. PEREIRA BUENO, A. SEIJAS CARBALLEDÓ, E. COSTAS, L.M. ORTEGA MORA.
 Title: "Antibody responses against *Neospora caninum* during gestation in naturally infected cattle".
 Type of participation: International, oral communication.
 Meeting: 1999 Annual Workshop and Meetings of Working Groups (COST 820 Vaccines against Animal Coccidiosis).
 Place of Meeting: Interlaken, Switzerland. 11-14 November 1999.
- 7.3.50. E. TABARÉS, J. PEREIRA BUENO, M. GÓMEZ BAUTISTA, L.M. ORTEGA MORA.

- Title: "Identification of *Cryptosporidium parvum* antigens recognised by humans and ruminants: prospect for a seroimmunodiagnostic assay".
 Type of participation: International, oral communication.
 Meeting: 1999 Annual Workshop and Meetings of Working Groups (COST 820 Vaccines against Animal Coccidiosis).
 Place of Meeting: Interlaken, Switzerland. 11-14 November 1999.
- 7.3.51. M.A. QUINTANILLA GOZALO, J. PEREIRA BUENO, V. PÉREZ PÉREZ, L.M. ORTEGA MORA.
 Title: "Evaluation of bovine abortion associated with *Neospora caninum* in Spain by different diagnostic techniques".
 Type of participation: International, oral communication.
 Meeting: 2000 Annual Workshop and Meetings of Working Groups (COST 820 Vaccines against Animal Coccidiosis).
 Place of Meeting: Dublin, Ireland. 15 -17 June 2000.
- 7.3.52. E. GONZÁLEZ ZOTES, J. PEREIRA BUENO, M. GÓMEZ BAUTISTA, P. RUBIO NISTAL, A. GUTIERREZ SIERRA, M. LUZÓN PEÑA, J.M. SAN MIGUEL, L.M. ORTEGA MORA.
 Title: "Prevalence of antibodies to *Toxoplasma gondii* and *Neospora caninum* in red deer (*Cervus elaphus*), roe deer (*Capreolus capreolus*) and chamois (*Rupicapra rupicapra*)".
 Type of participation: International, poster.
 Meeting: 2000 Annual Workshop and Meetings of Working Groups (COST 820 Vaccines against Animal Coccidiosis).
 Place of Meeting: Dublin, Ireland. 15 -17 June 2000.
- 7.3.53. V. PÉREZ, A. QUINTANILLA, J.M. CORPA, L.M. ORTEGA MORA, J. PEREIRA.
 Title: "Diagnóstico de la infección por *Neospora caninum* en fetos bovinos".
 Type of participation: National, oral communication.
 Meeting: XII Meeting of Spanish Society of Veterinary Patology Veterinaria.
 Place of Meeting: Jaca, Spain. 14-16 June 2000.
- 7.3.54. X. REBORDOSA, G. ALVAREZ-GARCÍA, E. COLLANTES, L.M. ORTEGA MORA, C. ARTIGAS.
 Title: "Desarrollo de un ELISA indirecto para la valoración de anticuerpos contra *Neospora caninum*".
 Type of participation: International, poster.
 Meeting: V Symposium of Veterinary Laboratory Diagnosticians .
 International Meeting of Animal Production and Health. Expoaviga 2000.
 Place of Meeting: Barcelona, Spain. 7-10 November 2000.
- 7.3.55. G. ÁLVAREZ, E. COSTAS, E. COLLANTES, X. REBORDOSA, L.M. ORTEGA MORA.
 Title: "Diagnosis of neosporosis in breeding cattle: an evaluation of serological techniques".
 Type of participation: International, oral communication.
 Meeting: X International Symposium of Veterinary Laboratory Diagnosticians and OIE Seminar on Biotechnology.
 Place of Meeting: Salsomaggiore-Parma, Italy. 4-7 July 2001.
- 7.3.56. I. FUENTES, M.J. GUTIERREZ, L.M. ORTEGA MORA, J. MORENO.
 Title: "Detección e identificación de ooquistes de *Cryptosporidium* en muestras de lodos".
 Type of participation: International, poster.
 Meeting: VII Iberian Meeting of Parasitology.
 Place of Meeting: Lisboa, Portugal, September, 2001.
- 7.3.57. G. ÁLVAREZ, E. COSTAS, E. COLLANTES, X. REBORDOSA, L.M. ORTEGA MORA.
 Title: "Diagnosis of neosporosis in aborted fetuses and infected breeding cattle: an evaluation of serological techniques".
 Type of participation: International, oral communication.
 Meeting: Neospora 2001. A symposium on all aspects of Bovine Neosporosis.
 Place of Meeting: Edimburgo, Scotland, UK. 13-15 September 2001.

- 7.3.58. G. ÁLVAREZ GARCÍA, J. PEREIRA BUENO, M.GÓMEZ BAUTISTA, L.M. ORTEGA MORA.
Title: "Pattern of recognition of *Neospora caninum* tachyzoite antigens by naturally infected pregnant cattle and aborted fetuses".
Type of participation: International, poster.
Meeting: Neospora 2001. A symposium on all aspects of Bovine Neosporosis.
Place of Meeting: Edimburgo, Scotland, UK. 13-15 September 2001.
- 7.3.59. E. COLLANTES FERNÁNDEZ, G. ÁLVAREZ GARCÍA, V. PÉREZ PÉREZ, J. PEREIRA BUENO, L.M. ORTEGA MORA.
Title: "A mouse model of chronic neosporosis: influence of host and parasite factors on the outcome of the infection".
Type of participation: International, poster.
Meeting: Neospora 2001. A symposium on all aspects of Bovine Neosporosis.
Place of Meeting: Edimburgo, Scotland, UK. 13-15 September 2001.
- 7.3.60. E. COLLANTES FERNÁNDEZ, A. ZABALLOS, G. ÁLVAREZ GARCÍA, L.M. ORTEGA MORA.
Title: "Quantitative detection of *Neospora caninum* in bovine aborted fetuses and experimentally infected mice by real-time PCR".
Type of participation: International, oral communication.
Meeting: Neospora 2001. A symposium on all aspects of Bovine Neosporosis.
Place of Meeting: Edimburgo, Scotland, UK. 13-15 September 2001.
- 7.3.61. J. DEL RIO, L. MURO, L.M. ORTEGA MORA., M. GÓMEZ BAUTISTA, E. COSTAS.
Title: "Detección de ooquistes de *Cryptosporidium* y quistes de *Giardia* en sedimentos de embalses y captaciones fluviales".
Type of participation: National, oral communication.
Meeting: XXII Technical Congress of Spanish Association of water supply and Plumbing.
Place of Meeting: Torremolinos, Málaga, Spain. 29-31 May 2002.
- 7.3.62. F.J. PÉREZ ZABALLOS, E. COSTAS, G. ÁLVAREZ GARCÍA, E. COLLANTES FERNÁNDEZ, L.M. ORTEGA MORA.
Title: "Adaptation in cell-culture of *Neospora caninum* isolates to changing environments: an argument in favour of its asexual propagation".
Type of participation: International, poster.
Meeting: 6th International Meeting on Molecular Epidemiology and Evolutionary Genetics in Infectious Diseases.
Place of Meeting: Pasteur Institute, Paris, France. 23-27 July 2002.
- 7.3.63. F.J. PÉREZ ZABALLOS, E. COLLANTES FERNÁNDEZ, A. RODRÍGUEZ BERTOS, G. ÁLVAREZ GARCÍA, L.M. ORTEGA MORA.
Title: "Comparison of the pathogenic diversity among *Neospora caninum* isolates in a mouse model".
Type of participation: International, poster.
Meeting: 6th International Meeting on Molecular Epidemiology and Evolutionary Genetics in Infectious Diseases.
Place of Meeting: Pasteur Institute, Paris, France. 23-27 July 2002.
- 7.3.64. F.J. PÉREZ ZABALLOS, E. COSTAS, G. ALVAREZ GARCIA, E. COLLANTES FERNÁNDEZ, V. NAVARRO, L.M. ORTEGA MORA.
Title: "Adaptation to changing environments and pathogenic diversity among different *Neospora caninum* isolates".
Type of participation: International, oral communication.
Meeting: Joint meeting of Working group 1 & 2, COST 854 Protozoal reproduction losses in farm ruminants.
Place of Meeting: Schloss Münchenwiler, Switzerland, December 2002.
- 7.3.65. E. COLLANTES FERNÁNDEZ, G. ALVAREZ GARCÍA, I. LÓPEZ PÉREZ, L.M. ORTEGA MORA.
Title: "Parasite load in blood and organs related to systemic immune response during acute and chronic *Neospora caninum* infection in mice".
Type of participation: International, oral communication.

Meeting: Joint meeting of Working group 1 & 2, COST 854 Protozoal reproduction losses in farm ruminants.
Place of Meeting: Schloss Münchenwiler, Switzerland, December 2002.

- 7.3.66. A. AGUADO MARTÍNEZ, G. ALVAREZ GARCÍA, L.M. ORTEGA MORA.
Title: "Técnicas de diagnóstico serológico de la toxoplasmosis y neosporosis en los rumiantes domésticos: diferenciación entre infección aguda y crónica".
Type of participation: National, oral communication.
Meeting: II University Meeting of Veterinary Sciences.
Place of Meeting: Veterinary Faculty, Complutense University of Madrid, Spain. Abril de 2003.
- 7.3.67. G. ALVAREZ GARCÍA, I. LÓPEZ PÉREZ, E.A. INNES, E. COLLANTES FERNÁNDEZ, A. FERNÁNDEZ GARCÍA, M. GÓMEZ BAUTISTA, L.M. ORTEGA MORA.
Title: "Diagnostic value of an immunodominant p17 antigen of *Neospora caninum* in naturally and experimentally infected cattle".
Type of participation: International, oral communication.
Meeting: Joint meeting of Working group 3 (Diagnosis) and 4 (Epidemiology, risk assessment, economics and control), (COST 854 Protozoal reproduction losses in farm ruminants).
Place of Meeting: Rheinsberg, Germany, 26-28 May 2003.
- 7.3.68. D. VON BLUMRÖDER, G. SCHARES, WILLIAMS, R. NORTON, E.A. INNES, I. ESTEBAN, J. MATTSON, C. BJÖRKMAN, V. RISCO CASTILLO, A. FERNÁNDEZ GARCÍA, L.M. ORTEGA MORA, A. HEMPHILL, H. SAGER, C. VAN MAANEN, W. WOUDE, B. FONTIJN, F. CONRATHS.
Title: "A multi-centred study to compare serological tests".
Type of participation: International, oral communication.
Meeting: Joint meeting of Working group 3 (Diagnosis) and 4 (Epidemiology, risk assessment, economics and control), (COST 854 Protozoal reproduction losses in farm ruminants).
Place of Meeting: Rheinsberg, Germany, 26-28 May 2003.
- 7.3.69. J. PEREIRA BUENO, A. QUINTANILLA GOZALO, V. PÉREZ PÉREZ, G. ÁLVAREZ GARCÍA, V. RISCO, E. COLLANTES FERNÁNDEZ, L.M. ORTEGA MORA.
Title: "Evaluation of ovine abortion associated with *Toxoplasma gondii* in Spain by different diagnostic techniques".
Type of participation: International, oral communication.
Meeting: Joint meeting of Working group 3 (Diagnosis) and 4 (Epidemiology, risk assessment, economics and control), (COST 854 Protozoal reproduction losses in farm ruminants).
Place of Meeting: Rheinsberg, Germany, 26-28 May 2003.
- 7.3.70. A. CAETANO DA SILVA, I. FERRE, G. ADURIZ, G. ÁLVAREZ GARCÍA, I. DEL POZO, R. ATXAERANDIO, J. REGIDOR CERRILLO, C. UGARTE GARAGALZA, L.M. ORTEGA MORA.
Title: "*Neospora caninum* infection in breeder bulls: seroprevalence and comparison of serological methods used for diagnosis".
Type of participation: International, oral communication.
Meeting: Joint meeting of Working group 3 (Diagnosis) and 4 (Epidemiology, risk assessment, economics and control), (COST 854 Protozoal reproduction losses in farm ruminants).
Place of Meeting: Rheinsberg, Germany, 26-28 May 2003.
- 7.3.71. A. AGUADO MARTÍNEZ, G. ALVAREZ GARCIA, I. ARNAIZ SECO, L.M. ORTEGA MORA.
Title: "Aplicación de las técnicas serológicas de afeidez en el diagnóstico de la neosporosis bovina".
Type of participation: National, poster.
Meeting: VIII Annual Symposium of Veterinary Laboratory Diagnosticians.
Place of Meeting: León, Spain. 23-24 October 2003.
- 7.3.72. G. ALVAREZ GARCIA, I. LÓPEZ PÉREZ, E. COLLANTES FERNÁNDEZ, A. FERNÁNDEZ GARCÍA, M. GÓMEZ BAUTISTA, L.M. ORTEGA MORA.
Title: "Utilidad de la fracción proteica de 17 kDa para el diagnóstico de la infección por *Neospora caninum* en el ganado bovino".

Type of participation: National, oral communication.
Meeting: VIII Annual Symposium of Veterinary Laboratory Diagnosticians.
Place of Meeting: León, Spain. 23-24 October 2003.

- 7.3.73. I. FERRÉ, A. CAETANO DA SILVA, G. ADURIZ, G. ALVAREZ GARCIA, I. DEL POZO, R. ATXAERANDIO, C. UGARTE GARAGALZA, J. REGIDOR CERRILLO, **L.M. ORTEGA MORA**.
Title: "Prevalencia de la infección por *Neospora caninum* en sementales bovinos: comparación de tres métodos serológicos".
Type of participation: National, oral communication.
Meeting: VIII Annual Symposium of Veterinary Laboratory Diagnosticians.
Place of Meeting: León, Spain. 23-24 October 2003.
- 7.3.74. A. FERNÁNDEZ GARCÍA, V. RISCO CASTILLO, A. ZABALLOS, G. ÁLVAREZ GARCÍA, **L.M. ORTEGA MORA**.
Title: "Molecular cloning, expresión and characterization of *N. caninum* SAG4 gene".
Type of participation: International, poster.
Meeting: COST-857 Annual workshop (Apicomplexan biology in the post-genomic era).
Place of Meeting: Lisboa, Portugal, mayo, 2004.
- 7.3.75. G. ÁLVAREZ GARCÍA, A. PITARCH, A. ZABALLOS, A. FERNÁNDEZ GARCÍA, C. GIL, **L. M. ORTEGA MORA**.
Title: "Evidence for the immunodominant *N. caninum* 17 KDa antigen deriving from the dense granule protein NcGRA7".
Type of participation: International, poster.
Meeting: COST-857 Annual workshop (Apicomplexan biology in the post-genomic era).
Place of Meeting: Lisboa, Portugal, mayo, 2004.
- 7.3.76. E. COLLANTES FERNANDEZ, I. ARNÁIZ SECO, G. ADURIZ, A. ESPÍ FELGUEROSO, I. IGLESIAS FONTAL, R. ATXAERANDIO, **L.M. ORTEGA-MORA**.
Title: "Influence of the stage of pregnancy on *Neospora caninum* distribution and loads in aborted bovine fetuses".
Type of participation: International, oral communication.
Meeting: Joint meeting of Working group 2 (Pathogenesis) and 3 (Diagnosis), COST 854 Protozoal reproduction losses in farm ruminants.
Place of Meeting: Derio, Bilbao, Spain. 17-19 de junio.de 2004
- 7.3.77. I. LÓPEZ PÉREZ, V. RISCO CASTILLO, E. COLLANTES FERNANDEZ, **L.M. ORTEGA MORA**.
Title: "Effect of infection with *Neospora caninum* in different stages of gestation in BALB/c mice".
Type of participation: International, oral communication.
Meeting: Joint meeting of Working group 2 (Pathogenesis) and 3 (Diagnosis), COST 854 Protozoal reproduction losses in farm ruminants.
Place of Meeting: Derio, Bilbao, Spain. 17-19 de junio.de 2004
- 7.3.78. G. ÁLVAREZ GARCÍA, A. PITARCH, M. GÓMEZ BAUTISTA, C. GIL, A. AGUADO, **L.M. ORTEGA MORA**.
Title: "Identification by 2D-western blot of the *Neospora caninum* tachyzoite antigens recognised by bovines".
Type of participation: International, oral communication.
Meeting: Joint meeting of Working group 2 (Pathogenesis) and 3 (Diagnosis), COST 854 Protozoal reproduction losses in farm ruminants.
Place of Meeting: Derio, Bilbao, Spain. 17-19 de junio.de 2004
- 7.3.79. A. AGUADO MARÍNEZ, G. ÁLVAREZ GARCÍA, A. ARNAIZ SECO, E. INNES, **L.M. ORTEGA MORA**.
Title: "Usefulness of avidity ELISA and avidity western blot in diagnosis of neosporosis in cattle".
Type of participation: International, oral communication.
Meeting: Joint meeting of Working group 2 (Pathogenesis) and 3 (Diagnosis), COST 854 Protozoal reproduction losses in farm ruminants.
Place of Meeting: Derio, Bilbao, Spain. 17-19 de junio.de 2004

- 7.3.80 C. VAN MAANEN, W. WOUDA, G. SCHARES, D. VON BLUMRÖDER, F.J. CONRATHS, R. NORTON, D.J.L. WILLIAMS, I. ESTEBAN REDONDO, E.A. INNES, J.G. MATTSSON, C. BJÖRKMAN, A. FERNANDEZ GARCÍA, N. MÜLLER, H. SAGER, A. HEMPHILL, L.M. ORTEGA MORA.
Title: "An interlaboratory comparison of immunohistochemistry and PCR methods for detection of *Neospora caninum* in bovine foetal tissues."
Type of participation: International, oral communication.
Meeting: Joint meeting of Working group 2 (Pathogenesis) and 3 (Diagnosis), COST 854 Protozoal reproduction losses in farm ruminants.
Place of Meeting: Derio, Bilbao, Spain. 17-19 de junio.de 2004
- 7.3.81 E. COLLANTES FERNÁNDEZ, A. RODRÍGUEZ BERTOS, B. MORENO BURGOS, I. ARNÁIZ SECO, GORKA ADURIZ, L.M. ORTEGA-MORA.
Title: "Influence of the abortion herd pattern on *Neospora caninum*-associated lesions and parasite loads in aborted bovine fetuses".
Type of participation: International, oral communication.
Meeting: COST 854-Annual Conference, Protozoal reproduction losses in farm ruminants.
Place of Meeting: Liverpool, UK. 29 de August-1 September 2004.
- 7.3.82. IGNACIO FERRE, GORKA ADURIZ, ITZIAR DEL POZO, JAVIER REGIDOR, RAQUEL ATXAERANDIO, ESTHER COLLANTES, ANA HURTADO, CARLOS URGARTE, L.M. ORTEGA MORA.
Title: "Detection of *Neospora caninum* in the semen and blood of naturally infected bulls".
Type of participation: International, oral communication.
Meeting: COST 854-Annual Conference, Protozoal reproduction losses in farm ruminants.
Place of Meeting: Liverpool, UK. 29 de August-1 September 2004.
- 7.3.83 E. SERRANO, I. FERRE, A. MARTÍNEZ, K. OSORO, G. ADURIZ, R. ATXAERANDIO, I. DEL POZO, L. M. ORTEGA MORA.
Title: "*Neospora caninum*: experimental infection in heifers suggests that seminal transmission may be possible".
Type of participation: International, oral communication.
Meeting: COST 854-Annual Conference, Protozoal reproduction losses in farm ruminants.
Place of Meeting: Liverpool, UK. 29 de August-1 September 2004.
- 7.3.84 E. SERRANO MARTÍNEZ, A CHÁVEZ VELÁSQUEZ, G. ÁLVAREZ GARCÍA, E. COLLANTES FERNÁNDEZ, E. CASAS ASTOS, V. RISCO CASTILLO, L.M. ORTEGA MORA.
Title: "*Neospora caninum* infection in alpacas (*Vicugna pacos*) and lamas (*Lama glama*)".
Type of participation: International, oral communication.
Meeting: COST 854-Annual Conference, Protozoal reproduction losses in farm ruminants.
Place of Meeting: Liverpool, UK. 29 de August-1 September 2004.
- 7.3.85 M. GÓMEZ BAUTISTA, S. PEDRAZA DÍAZ, V. NAVARRO, J. DEL RIO; L. MURO, L.M. ORTEGA MORA.
Title: "Monitoring of *Cryptosporidium* oocysts and *Giardia* cysts in a drinking water supply in northern Spain".
Type of participation: International, poster.
Meeting: International *Giardia* and *Cryptosporidium* Conference.
Place of Meeting: Ámsterdam, Holland. 20-24 September 2004.
- 7.3.86 A. AGUADO MARTÍNEZ, S. ROJO MONTEJO, J. SALAS CALVO, L.M. ORTEGA MORA.
Title: "Estrategias para el diagnóstico y el control de la neosporosis bovina".
Type of participation: National, poster.
Meeting: III Conference of International Association of Veterinarian students.
Place of Meeting: Veterinary School, Complutense University of Madrid, Spain. 15-16 April 2005.
- 7.3.87 M.V. SÁNCHEZ VENERO, J. REGIDOR CERRILLO, L.M. ORTEGA MORA.
Title: "Utilidad veterinaria de las técnicas de caracterización genética en protozoos apicomplejos. Aplicación en *Neospora caninum*".
Type of participation: National, oral communication.

Meeting: IV Meeting of Veterinary and Biomedic Sciences.
Place of Meeting: Complutense University of Madrid, Spain. Abril de 2005

- 7.3.88 S. PEDRAZA DÍAZ, J. REGIDOR CERRILLO, M. GÓMEZ BAUTISTA, L.M. ORTEGA MORA.
Title: "Multilocus microsatellite analysis reveals extensive genetic diversity in *Neospora caninum*".
Type of participation: International, oral communication.
Meeting: COST-857 Annual workshop (Apicomplexan biology in the post-genomic era).
Place of Meeting: Beatenberg, Switzerland. May 2005.
- 7.3.89 V. RISCO CASTILLO, A. FERNÁNDEZ GARCÍA, A. ZABALLOS, G. ÁLVAREZ GARCÍA, L.M. ORTEGA MORA.
Title: "Caracterización of NcSAG4 expression in *Neospora caninum* bradyzoites".
Type of participation: International, poster.
Meeting: COST-857 Annual workshop (Apicomplexan biology in the post-genomic era).
Place of Meeting: Beatenberg, Switzerland. May 2005.
- 7.3.90 L.M. ORTEGA MORA, K. OSORO, U. GARCIA, S. PEDRAZA DIAZ, M. GÓMEZ BAUTISTA, A. RICHARD, I. FERRE.
Title: "Efficacy of decoquinate at different administration strategies against cryptosporidiosis in naturally infected cashmere goat kids."
Type of participation: International, oral communication.
Meeting: International Sheep Veterinary Congress.
Place of Meeting: Creta, Greece . 17-21 June 2005.
- 7.3.91 E. SERRANO, I. FERRE, K.OSORO, G. ADURIZ, R. A. MOTA, A. MARTÍNEZ, R. ATXAERANDIO, C.O. HIDALGO, L.M. ORTEGA MORA.
Title: "Intrauterine *Neospora caninum* inoculation using contaminated semen with different numbers of tachyzoites".
Type of participation: International, oral communication.
Meeting: 2005 Annual Meeting, COST-Action 854, Protozoal reproduction losses in farm ruminants.
Place of Meeting: Varsovia, Poland , 29 August-1 September 2005.
- 7.3.92 I. FERRE, A. MARTÍNEZ, E. SERRANO, K. OSORO, A. MATEOS SANZ, C. TAMARGO, C.O. HIDALGO, I. DEL POZO, G. ADURIZ, L.M. ORTEGA MORA.
Title: "Detection of *Neospora caninum* in the semen and blood during acute and chronic experimental Neosporosis in bulls".
Type of participation: International, oral communication.
Meeting: 2005 Annual Meeting, COST-Action 854, Protozoal reproduction losses in farm ruminants.
Place of Meeting: Varsovia, Poland . 29 August-1 September 2005.
- 7.3.93 E. SERRANO MARTÍNEZ, A. CHÁVEZ VELÁSQUEZ, E. COLLANTES FERNÁNDEZ, G. ÁLVAREZ GARCÍA, E. CASAS ASTOS, R. ROSANDIO ALCÁNTARA, V. RISCO CASTILLO, L.M. ORTEGA MORA.
Title: "Neosporosis and Toxoplasmosis in South American Camelids from Peru".
Type of participation: International, oral communication.
Meeting: 2005 Annual Meeting, COST-Action 854, Protozoal reproduction losses in farm ruminants.
Place of Meeting: Varsovia, Poland , 29 August-1 September 2005.
- 7.3.94 J. SALAS CALVO, G. ÁLVAREZ GARCÍA, A. AGUADO MARTÍNEZ, M. GÓMEZ BAUTISTA, I. ARNAIZ SECO, L.M. ORTEGA MORA.
Title: "Desarrollo de un ELISA para la detección de anticuerpos en leche frente a *Neospora caninum* en el ganado bovino".
Type of participation: National, oral communication.
Meeting: X Anual Symposium of Veterinary Laboratory Diagnosticians .
Place of Meeting: Palma de Mallorca, Spain. 22-23 September 2005.
- 7.3.95 X. REBORDOSA TRIGUEROS, J. CABALLERO DE TORO, A. AGUADO MARTÍNEZ, X. RÚBIES FEIJOO,

- L.M. ORTEGA MORA.**
 Title: "Adaptación de un ELISA indirecto comercial (CIVTEST Neospora Bovis) para la estimación de la avidez: utilidad diagnóstica en el ganado bovino".
 Type of participation: National, póster.
 Meeting: X Anual Symposium of Veterinary Laboratory Diagnosticians.
 Place of Meeting: Palma de Mallorca, Spain. 22-23 September 2005.
- 7.3.96 A. NAGULESWARAN, M. SPICHER, J.F. ROSSIGNOL, **L.M. ORTEGA MORA**, A. HEMPHILL.
 Title: "In vitro parasitocidal effect of isoflavone against *Echinococcus metacestodes*".
 Type of participation: International, poster.
 Meeting: The 20th International Conference of the World Association for the Advancement of Veterinary Parasitology.
 Place of Meeting: Christchurch, New Zealand. 16-20 October 2005.
- 7.3.97 E. SERRANO, I. FERRE, K. OSORO, G. ADURIZ, R.A. MOTA, A. MARTÍNEZ, R. ATXAERANDIO, C.O. HIDALGO, **L.M. ORTEGA MORA**.
 Title: "Intrauterine *Neospora caninum* inoculation using contaminated semen with different number of tachyzoites".
 Type of participation: International, póster.
 Meeting: The 20th International Conference of the World Association for the Advancement of Veterinary Parasitology.
 Place of Meeting: Christchurch, New Zealand. 16-20 October 2005.
- 7.3.98 K. OSORO, U. GARCÍA, S. PEDRAZA DÍAZ, M. GÓMEZ BAUTISTA, A. RICHARD, I. FERRE, **L.M. ORTEGA MORA**.
 Title: "Utilisation du décoquinate pour le contrôle de la cryptosporidiose chez le chevreau".
 Type of participation: International, póster.
 Meeting: The 12èmes Rencontres Recherches Ruminants.
 Place of Meeting: Paris, France. 7-8 December 2005.
- 7.3.99 V. RISCO CASTILLO, A. FERNÁNDEZ GARCÍA, A. ZABALLOS, A. RODRÍGUEZ BERTOS, G. ÁLVAREZ GARCÍA, **L.M. ORTEGA MORA**.
 Title: "Molecular characterization of BSR4, a novel bradyzoite specific from *Neospora caninum*".
 Type of participation: International, oral communication.
 Meeting: Annual workshop Cost Action 857, Apicomplexan biology in the post-genomic era.
 Place of Meeting: Dresde, Germany, May 2006.
- 7.3.100 REGIDOR CERRILLO, J., OLIVEIRA, V.S.F., SILVA, A.C., **L.M. ORTEGA MORA**.
 Title: "Isolation of *Neospora caninum* from asymptomatic calves".
 Type of participation: International, poster.
 Meeting: 14º Congresso Brasileiro de Parasitologia Veterinária & 2º Simpósio Latino-Americano de Rickettsioses.
 Place of Meeting: Ribeirão Preto, São Paulo, Brasil. 3-6 September 2006.
- 7.3.101 I. LÓPEZ PÉREZ, E. COLLANTES FERNÁNDEZ, A. AGUADO MARTÍNEZ, **L.M. ORTEGA MORA**.
 Title: "Influence of *Neospora caninum* infection during pregnancy in post-natal development in BALB/c mice".
 Type of participation: International, oral communication.
 Meeting: COST-Action 854, Protozoal reproduction losses in farm ruminants, Final Conference.
 Place of Meeting: Lieja, Belgium. 6- 9 September 2006.
- 7.3.102 I. FERRE, A. MARTÍNEZ, K. OSORO, A. MATEOS SANZ, C. TAMARGO, C.O. HIDALGO, I. DEL POZO, G. ADURIZ, **L.M. ORTEGA MORA**.
 Title: "Experimental chronic neosporosis: detection of parasite DNA in the semen and blood of re-infected bulls".
 Type of participation: International, oral communication.
 Meeting: COST-Action 854, Protozoal reproduction losses in farm ruminants, Final Conference.

Place of Meeting: Lieja, Belgium. 6- 9 September 2006.

- 7.3.103 A. AGUADO MARTÍNEZ, G. ALVAREZ GARCÍA, I. ARNOIZ SECO, M.I. CARNERO, L.M. ORTEGA MORA.
Title: "New insights on the interpretation of unclear results in the serological diagnosis of bovine neosporosis".
Type of participation: International, oral communication.
Meeting: COST-Action 854, Protozoal reproduction losses in farm ruminants, Final Conference.
Place of Meeting: Lieja, Belgium. 6- 9 September 2006.
- 7.3.104 G. SCHARES, VON BLUMRADER, R. NORTON, J.L. WILLIAMS, I. ESTEBAN REDONDO, S. WRIGHT, C. BJORKMAN, J. FROSSLING, V. RISCO CASTILLO, A. FERNÁNDEZ GARCÍA, L.M. ORTEGA MORA, H. SAGER, A. HEMPHILL, C. VAN MAANEN, W. WOUDE, F.J. CONRATHS.
Title: "Comparison of commercial and in-house ELISAs for the diagnostic of bovine *Neospora caninum* infection after epidemic and endemic abortion".
Type of participation: International, oral communication.
Meeting: COST-Action 854, Protozoal reproduction losses in farm ruminants, Final Conference.
Place of Meeting: Lieja, Belgium. 6- 9 September 2006.
- 7.3.105 S. ROJO MONTEJO, E. COLLANTES FERNÁNDEZ, J. BLANCO MURCIA, A. RODRÍGUEZ BERTOS, L.M. ORTEGA MORA.
Title: "Characterization of a low virulent isolate of *Neospora caninum* in a pregnant bovine model".
Type of participation: International, oral communication.
Meeting: COST-Action 854, Protozoal reproduction losses in farm ruminants, Final Conference.
Place of Meeting: Lieja, Belgium. 6- 9 September 2006.
- 7.3.106 F.T. GARCÍA MORENO, M. GÓMEZ BAUTISTA, S. PEDRAZA DÍAZ, L.M. ORTEGA MORA.
Title: "Parásito gastrointestinales en poblaciones de focidos y otáridos en Islas Shetland del Sur y Península Antártica".
Type of participation: International, oral communication.
Meeting: VII Spanish Symposium of Polar Studies.
Place of Meeting: Granada, Spain. 18-20 September 2006.
- 7.3.107 A. AGUADO, J.M. IRACHE, M. AGÜEROS, C. GAMAZO, A. FERNÁNDEZ GARCÍA, G. ALVAREZ GARCÍA, L.M. ORTEGA MORA.
Title: "Development and characterization of Gantrez® nanoparticles associated with a *Neospora caninum* recombinant protein".
Type of participation: International, poster.
Meeting: VII Spanish-portuguese Conference on Controlled Drug Delivery.
Place of Meeting: Pharmacy School of the University of Navarra, Pamplona, Spain. 22-24 October 2006.
- 7.3.108 S. PEDRAZA-DIAZ, V. MARUGÁN-HERNÁNDEZ, E. COLLANTES-FERNÁNDEZ, J. REGIDOR-CERRILLO, M. GÓMEZ-BAUTÍSTA, ORTEGA-MORA, L.M.
Title: "Genetic characterisation of *Neospora caninum* isolates from aborts bovine faetuses"
Type of participation: International, oral communication.
Meetings: 4th Annual Workshop I, COST Action 857.
Place of Meeting: Porticcio, France. 4-7 May 2007.
- 7.3.109 REGIDOR-CERRILLO, J., GÓMEZ-BAUTÍSTA, M., ORTEGA-MORA, L.M.
Title: "Application of Ettan 2D- DIGE system for comparison of proteome among *Neospora caninum* isolates".
Type of participation: Ponencia.
Meetings: 4th Annual Workshop I, COST Action 857.
Place of Meeting: Porticcio, France. 4-7 May 2007.
- 7.3.110 V. MARUGAN-HERNANDEZ, L.M. ORTEGA MORA, J.C. BOOTHROYD, S.K. KIM, & G., ÁLVAREZ-GARCÍA
Title: "The expression of NcSAG4 bradyzoite stage specific protein in the tachyzoite stage reduces the transplacental transmission of *Neospora caninum*."
Type of participation: International, oral communication

Meeting: COST 857 – 4th ANNUAL CONFERENCE. "Apicomplexa in the postgenomic era"
Place of Meeting: Córcega, France. 4-7 May 2007.

- 7.3.111 ROJO-MONTEJO S., COLLANTES-FERNÁNDEZ E., RODRÍGUEZ-BERTOS A., PRENAFETA A.,
ORTEGA-MORA L.M.
Title: "Development of a killed *Neospora caninum* vaccine: identification of protective adjuvants and antigen doses against *N. caninum* infection in a mouse model"
Type of participation: International, poster
Meeting: COST ACTION 857.
Place of Meeting: Coralia Porticcio, France. 2007.
- 7.3.112 PEREIRA GARCÍA-MELO, D., COLLANTES-FERNANDEZ, E., REGIDOR-CERRILLO, J., AGUADO-MARTÍNEZ A., DEL POZO I., GÓMEZ-BAUTISTA M., ADURIZ G., **ORTEGA-MORA L. M.**
Title: Variabilidad intra-específica en la virulencia de aislados bovinos de *Neospora caninum* de origen español.
Type of participation: International, póster.
Meeting: X Iberian Meeting of Parasitology.
Place of Meeting: Madrid. Spain. 2007.
- 7.3.113 ROJO-MONTEJO S., COLLANTES-FERNÁNDEZ E., RODRÍGUEZ-MARCOS S., PÉREZ-ZABALLOS F.,
PRENAFETA A., **ORTEGA-MORA L.M.**
Title: "Efficacy of the vaccination with killed whole *Neospora caninum* tachyzoite or tachyzoite-bradyzoite antigens in a pregnant BALB/c mouse model"
TIPO DE PARTICIPACIÓN: International, Póster
Meeting: WAAVP, The 21st International Conference of the World Association for the Advancement of veterinary Parasitology
Place of Meeting: Gante, Belgium. 2007
- 7.3.114 COLLANTES-FERNÁNDEZ E., REGIDOR-CERRILLO J., PEDRAZA-DÍAZ S., VAZQUEZ-MORENO E.,
ÁRNAIZ I., ADURIZ G., GÓMEZ-BAUTISTA M., **ORTEGA-MORA L.M.**
Title: Occurrence of *Neospora caninum* infection and other intestinal parasites in at-risk dog populations in Spain
Type of participation: International, Póster
Meeting: WAAVP, The 21st International Conference of the World Association for the Advancement of veterinary Parasitology
Place of Meeting: Gante, Belgium. 2007
- 7.3.115 LÓPEZ-PÉREZ IC, COLLANTES-FERNÁNDEZ E, RISCO-CASTILLO V, PÉREZ-PÉREZ V, PEREIRA-BUENO J. AND **ORTEGA-MORA LM.**
Title: Pathological and immunological findings on placenta after infection with *Neospora caninum* in a pregnant mouse model
Type of participation: International, Póster
Meeting: WAAVP, The 21st International Conference of the World Association for the Advancement of veterinary Parasitology
Place of Meeting: Gante, Belgium. 2007
- 7.3.116 FERRE I., MATEOS-SANZ A., ADURIZ G., UGARTE-GARAGALZA C., MOTA R.A., **ORTEGA-MORA L.M.**
Title: A BALB/c *nu/nu* mouse model to evaluate the viability of *Neospora caninum* tachyzoites in bovine extended semen
Meeting: The 21st International Conference of the World Association for the Advancement of veterinary Parasitology
Lugar y fecha: Gante, Belgium, 19-23 August 2007
Carácter: International
- 7.3.117 PEDRAZA-DÍAZ S., GARCÍA-MORENO T., FERRE I., GÓMEZ-BAUTISTA M., **ORTEGA-MORA L.M.**
Title: Gastrointestinal parasites in phocid and otarid populations from South Shetland Islands and Antarctic Peninsula
Referencia: The 21st International Conference of the World Association for the Advancement of veterinary Parasitology

Lugar y fecha: Gante, Belgium, 19-23 August 2007
Carácter: International

- 7.3.118 A. AGUADO-MARTÍNEZ, G. ALVAREZ GARCÍA, A. FERNÁNDEZ GARCÍA, V. RISCO-CASTILLO, I. ARNAIZ-SECO, X. REBORDOSA, V. NAVARRO-LOZANO, L.M. ORTEGA MORA
Title: "Usefulness of the recombinant proteins rNcSAG4 and rNcGRA7-based ELISA tests to distinguish primo-infection, recrudescence and chronic bovine neosporosis".
Type of participation: International, oral communication.
Meeting: WAAVP, 2007 Conference.
Place of Meeting: Gante, Belgica. 19-23 August 2007.
- 7.3.119 A. AGUADO-MARTÍNEZ, G. ALVAREZ GARCÍA, A. FERNÁNDEZ GARCÍA, V. RISCO-CASTILLO, V. MARUGAN-HERNANDEZ, L.M. ORTEGA MORA
Title: "Protective immunity induced by recombinant antigens rNcSAG4 and rNcGRA7 against chronic and congenital neosporosis in an experimental murine model."
Type of participation: International, poster.
Meeting: WAAVP, 2007 Conference.
Place of Meeting: Gante, Belgica. 19-23 August 2007.
- 7.3.120 C. GÉNÉREUX, G. ALVAREZ GARCÍA, L.M. ORTEGA MORA, B. LOSSON
Title: "Detection of antibodies to *Neospora caninum* in cattle by enzyme-linked immunosorbent assay with truncated NcSRS2 expressed in *Pichia pastoris*."
Type of participation: International, póster.
Meeting: WAAVP, 2007 Conference.
Place of Meeting: Gante, Belgica. 19-23 August 2007.
- 7.3.121 S. PEDRAZA-DIAZ, M. GOMEZ-BAUTISTA, B. ALVAREZ CARRION, V. NAVARRO, I.C. LOPEZ-PEREZ, L.M. ORTEGA MORA.
Title: "Molecular characterisation of *Cryptosporidium* isolates from pet reptiles"
Type of participation: International, oral communication.
Meeting: The 21st International Conference of the World Association for the Advancement of Veterinary Parasitology.
Place of Meeting: Gante, Belgium, 19-23 August 2007.
- 7.3.122 J. REGIDOR-CERRILLO, M. GOMEZ-BAUTISTA, S. PEDRAZA-DIAZ, L.M. ORTEGA MORA.
Title: "Isolation and genetic characterization of *Neospora caninum* from asymptomatic calves in Spain".
Type of participation: International, póster.
Meeting: The 21st International Conference of the World Association for the Advancement of Veterinary Parasitology.
Place of Meeting: Gante, Belgium, 19-23 August 2007.
- 7.3.123 A. FERNÁNDEZ-GARCÍA, G. ÁLVAREZ-GARCÍA, A. AGUADO-MARTÍNEZ, V. RISCO-CASTILLO, J.A. CASTILLO, L.M. ORTEGA-MORA.
Title: "Desarrollo y validación de un ELISA indirecto para el diagnóstico de la besnoitiosis bovina".
Type of participation: oral communication.
Meeting: AVEDILA, 2007.
Place of Meeting: Bilbao, 1-2 October 2007.
- 7.3.124 A. AGUADO-MARTÍNEZ, G. ÁLVAREZ-GARCÍA, A. FERNÁNDEZ-GARCÍA, V. RISCO-CASTILLO, I. ARNAIZ-SECO, X. REBORDOSA-TRIGUEROS, V. NAVARRO-LOZANO, L.M. ORTEGA-MORA.
Title: "Utilidad de dos ELISA recombinantes con las proteínas rNcGRA7 y rNcSAG4 para diferenciar primoinfección, recrudescencia e infección crónica por *Neospora caninum* en el ganado bovino".
Type of participation: oral communication.
Meeting: AVEDILA, 2007.
Place of Meeting: Bilbao, 1-2 October 2007.

- 7.3.125 I. FERRE, M.A. PÉREZ-CABAL, I. ARNAIZ-SECO, M. GÓMEZ-BAUTISTA, L.M. ORTEGA-MORA.
 Title: "Bovine Neosporosis: Relationship between Presence of Infected Bulls and Intra-herd Seropositivity".
 Type of participation: International, poster.
 Meeting: 11th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR).
 Place of Meeting: Celle, Germany, 21-22 September 2007.
- 7.3.126 K. OSORO, L.M. ORTEGA-MORA, A. MARTÍNEZ, E. SERRANO, I. FERRE.
 Title: "Bovine Neosporosis: Natural Breeding with Experimentally-infected Bulls Failed to Induce Seroconversion in Heifers".
 Type of participation: International, poster.
 Meeting: 11th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR).
 Place of Meeting: Celle, Germany, 21-22 September 2007.
- 7.3.127 P. FRUTOS, L.M.M. FERREIRA, G. HERVÁS, U. GARCÍA, J. MORENO-GONZALO, I. FERRE, R. CELAYA, L.M. ORTEGA-MORA, K. OSORO.
 Title: "Is the anthelmintic effect of heather supplementation to grazing goats always accompanied by antinutritional effects?".
 Type of participation: International, oral communication.
 Meeting: 12th Seminar of the FAO-CIHRAM Sub-Network Sheep and Goat Nutrition.
 Place of Meeting: Tesalónica, Greece, 11-13 October 2007.
- 7.3.128 J. MORENO-GONZALO, K. OSORO, A. MATEOS-SANZ, U. GARCÍA, P. FRUTOS, R. CELAYA, L.M.M. FERREIRA, G. HERVÁS, L.M. ORTEGA-MORA, I. FERRE.
 Title: "Effects of heather (Ericaceae) supplementation on gastrointestinal nematodes and live weight changes in naturally-infected Cashmere goats managed under two different stocking rates".
 Type of participation: International, poster.
 Meeting: 12th Seminar of the FAO-CIHRAM Sub-Network Sheep and Goat Nutrition.
 Place of Meeting: Tesalónica, Greece, 11-13 October 2007.
- 7.3.129 ORTEGA-MORA, L.M., RISCO-CASTILLO, V., ARNAIZ-SECO, I., GARCÍA-PEÑA, F.J., ROSADIO-ALCÁNTARA, R.H., CASTILLO-DOLORIERT, H., WHEELER, J., HOCES, D.
 Title: "Evaluación del impacto sanitario de los nuevos sistemas de manejo en la población de vicuñas del Perú".
 Type of participation: National, oral communication.
 Meeting: Research on Agriculture for the Development. iApD.
 Place of Meeting: Castelldefels, Spain, 13 y 14 December 2007.
- 7.3.130 ALVAREZ-GARCIA G, PITARCH A, FERNANDEZ-GARCIA A, ZABALLOS A, GIL C, GOMEZ-BAUTISTA M, AGUADO-MARTINEZ A, ORTEGA-MORA LM.
 Title: "El gen *NcGRA7* codifica el antígeno inmunodominante de 17-KDa de *Neospora caninum*".
 Type of participation: National, oral communication.
 Meeting: Proteomic.
 Place of Meeting: Barcelona, Spain, 21-22 February 2008.
- 7.3.131 MARUGÁN-HERNÁNDEZ, REGIDOR-CERRILLO J, FERNANDEZ-GARCIA A, ALVAREZ-GARCIA G, AGUADO-MARTINEZ A, RISCO-CASTILLO V, GOMEZ-BAUTISTA M, ORTEGA-MORA LM.
 Title: "Análisis proteómico en protozoos formadores de quistes relevantes en sanidad animal".
 Type of participation: International, oral communication.
 Meeting: Proteomic.
 Place of Meeting: Barcelona, Spain, 21-22 February 2008.
- 7.3.132 GARCIA-PARRAGA D., PEDRAZA-DIAZ S., GARCIA-PEÑA F.J., GARCÍA-MORENO F.T., CASTRO-URDA J., GOMEZ-BAUTISTA M, ORTEGA-MORA LM.
 Title: "Health assessment of antarctic pinnipeds at Deception Island".
 Type of participation: International, oral communication.
 Meeting: European Association for Aquatic Mammals (EAAM)
 Place of Meeting: Kolmården, Sweden. 2008.

- 7.3.133 FERNÁNDEZ-GARCÍA, A., MORALES, A., PEREDA, J.M., AGUADO-MARTÍNEZ, A., MARCÉN, J.M., ROJAS, S., RISCO-CASTILLO, V., ORTEGA-MORA LM.
 Title: "Descripción de un brote de besnoitiosis bovina en el Sistema Central".
 Type of participation: National, oral communication.
 Meeting: ANEMBE.
 Place of Meeting: Salamanca – Spain, 7-10 May 2008.
- 7.3.134 ROJO-MONTEJO, S., COLLANTES-FERNÁNDEZ, E., REGIDOR-CERRILLO, J., ALVARES-GARCIA G., MARUGÁN-HERNÁNDEZ, V., PEDRAZA-DÍAZ, S., BLANCO-MURCIA, J., RODRÍGUEZ-BERTOS, A., ORTEGA-MORA LM.
 Title: "Isolation and characterisation of a low virulence bovine isolate of *Neospora caninum*".
 Type of participation: International, poster.
 Meeting: COST 857 – Apicomplexan Biology.
 Place of Meeting: Chania – Greece, 27-31 May 2008.
- 7.3.135 AGUADO-MARTÍNEZ, A., FERNÁNDEZ-GARCÍA, A., ALVAREZ-GARCIA G., RODRÍGUEZ-MARCOS, S., RISCO-CASTILLO, V., MARUGÁN-HERNÁNDEZ, V., ORTEGA-MORA LM.
 Title: "Stage-specific NcSAG1 and NcSAG4 genes as molecular markers of acute and chronic *Neospora caninum* infection in a Mouse model".
 Type of participation: International, poster.
 Meeting: COST 857 – Apicomplexan Biology.
 Place of Meeting: Chania – Greece, 27-31 May 2008.
- 7.3.136 MARUGÁN-HERNÁNDEZ, V., ORTEGA-MORA LM., AGUADO-MARTÍNEZ, A., ALVAREZ-GARCIA G.
 Title: "Protection against vertical transmisión of *Neospora caninum* infection in mice with a low virulence isolate expressing NcSAG4 protein in a constitutive manner."
 Type of participation: International, poster.
 Meeting: COST 857 – Apicomplexan Biology.
 Place of Meeting: Chania – Greece, 27-31 May 2008.
- 7.3.137 PEDRAZA-DÍAZ, D. GARCÍAPÁRRAGA, F.J. GARCÍA-PEÑA, C. RENGIFO-HERRERA, J. CASTRO-URDA, F.T. GARCÍA-MORENO, M. GÓMEZ-BAUTISTA, L.M. ORTEGA-MORA.
 Title: Health status of Antarctic pinnipeds
 Type of participation: International, oral
 MEETING: 2008 IAAAM Conference
 Place of Meeting: Roma, Italy
- 7.3.138 PEDRAZA-DÍAZ S., RENGIFO-HERRERA C., ALVAREZ-GARCIA G., GARCIA-PEÑA F.J., CASTRO-URDA J., GARCIA-PARRAGA D., GOMEZ-BAUTISTA M, ORTEGA-MORA LM.
 Title: "Serological findings in Antarctic pinnipeds".
 Type of participation: International, poster.
 Meeting: SCAR/IASC/IPY Open Science Conference
 Place of Meeting: St. Petersburg, 8-11 July 2008.
- 7.3.139 PALACIOS M.J., BARBOSA A., PEDRAZA-DÍAZ S., ORTEGA-MORA LM., GARCIA-PEÑA F.J., VALERA F., CUERVO J., BENZAL J., DE LA CRUZ C.
 Title: "Infectious agents in antarctic penguins".
 Type of participation: International, poster.
 Meeting: SCAR/IASC/IPY Open Science Conference
 Place of Meeting: St. Petersburg, 8-11 July 2008.
- 7.3.140 MORENO-GONZALO, J.; ORTEGA-MORA, L.M.; OSORO, K.; GARCÍA, U.; FRUTOS, P.; FERREIRA, L.M.M.; CELAYA, R. Y FERRE, I.
 Title: "Efecto de la suplementación con brezo sobre la infección natural por nematodos gastrointestinales en cabras cachemir y sus crías".

Type of participation: International, poster.

Meeting: XXXIII Scientific Conferences and XII International Conferences of Spanish Society of Ovine and Caprine Technology.

Place of Meeting: Almería, 24 – 27 September 2008.

8. Doctoral Thesis, Master of Science and other Works

8.1 Doctoral thesis

- 8.1.1. Title: "Obtención y caracterización de anticuerpos monoclonales frente a *Cryptosporidium parvum*. Aplicaciones diagnósticas".
PhD Student: M^a Mercedes PILAR IZQUIERDO.
Place: Veterinary Faculty. University of León.
Date of defense: 1997.
Qualifying grade: Passed "cum laude" and PhD with Distinction.
Directors: Dr. Luis Miguel Ortega Mora y Dr. Francisco A. Rojo Vázquez.
- 8.1.2. Title: "Estudio epidemiológico de las infecciones por *Cryptosporidium parvum* en alpacas neonatas en Perú".
PhD Student: M^a. Teresa LÓPEZ URBINA.
Place: Veterinary Faculty. University of León.
Date of defense: 1997.
Qualifying grade: Passed "cum laude"
Directors: Dr. Luis Miguel Ortega Mora y Dr. Francisco A. Rojo Vázquez.
- 8.1.3. Title: "Aportaciones al conocimiento de la neosporosis y la toxoplasmosis en los rumiantes domésticos".
PhD Student: M^a Agueda QUINTANILLA GOZALO.
Place: Veterinary Faculty. University of León.
Date of defense: 2000.
Qualifying grade: Excellent "cum laude".
Directors: Dr. Luis Miguel Ortega Mora y Dra. Juana Pereira Bueno.
- 8.1.4. Title: "Identificación de antígenos de *Cryptosporidium parvum* con interés en el inmunodiagnóstico en los rumiantes domésticos".
PhD Student: Enrique TABARÉS RODRÍGUEZ.
Place: Chemistry Faculty. Complutense University of Madrid.
Date of defense: 2003.
Qualifying grade: Excellent "cum laude".
Director: Dr. Luis Miguel Ortega Mora.
- 8.1.5. Title: "Identificación y caracterización de antígenos de *Neospora caninum* con interés inmunodiagnóstico en bovinos".
PhD Student: Gema ÁLVAREZ GARCÍA.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2003.
Qualifying grade: Excellent "cum laude" and PhD with Distinction.
Director: Dr. Luis Miguel Ortega Mora.
- 8.1.6. Title: "Patogenia de la neosporosis en fetos bovinos y en un modelo murino experimental".
PhD Student: Esther COLLANTES FERNÁNDEZ.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2004.
Qualifying grade: Excellent "cum laude" and PhD with Distinction.
Director: Dr. Luis Miguel Ortega Mora.
- 8.1.7. Title: "Variabilidad biológica en *Neospora caninum*".
PhD Student: Francisco José PÉREZ ZABALLOS.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2004.
Qualifying grade: Excellent "cum laude".

Directors: Dr. Luis Miguel Ortega Mora y Dr. Eduardo Costas Costas.

- 8.1.8 Title: "Eliminación de *Neospora caninum* en semen bovino y evaluación del semen como vía de transmisión".
PhD Student: Enrique SERRANO MARTÍNEZ.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2007.
Qualifying grade: Excellent "cum laude".
Directors: Dr. Luis Miguel Ortega Mora y Dr. Ignacio Ferre Pérez.
- 8.1.9 Title: "Identificación y caracterización de proteínas específicas del bradizoito de *Neospora caninum*".
PhD Student: Verónica RISCO CASTILLO.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2008.
Qualifying grade: unresolved.
Directors: Dr. Luis Miguel Ortega Mora y Dra. Aurora Fernández.
- 8.1.10 Title: Desarrollo de un modelo murino gestante de la infección por *Neospora caninum*".
PhD Student: Inmaculada LÓPEZ PÉREZ.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2009.
Qualifying grade: unresolved.
Directors: Dr. Luis Miguel Ortega Mora y Dra. Esther Collantes Fernández.
- 8.1.11 Title: "Valor diagnóstico y vacunal de las proteínas recombinantes rNc-GRA-7, rNc-SAG-4 y rNc-BSR-4 de *Neospora caninum*".
PhD Student: Adriana AGUADO MARTÍNEZ.
Place: Veterinary Faculty. Complutense University of Madrid.
Executing.
Directors: Dr. Luis Miguel Ortega Mora, Dra. Gema Alvarez García y Dra. Aurora Fernández García.
Estimated date of completion: 2009.
- 8.1.12 Title: "Desarrollo de vacunas inactivadas frente a la neosporosis bovina".
PhD Student: Silvia ROJO MONTEJO.
Place: Veterinary Faculty. Complutense University of Madrid.
Executing.
Directors: Dr. Luis Miguel Ortega Mora y Dra. Esther Collantes Fernández.
Estimated date of completion: 2009.

8.2 Master of Science (MSc).

- 8.2.1. Title: "Características del mucus intestinal en la infección por *Cryptosporidium parvum* en corderos".
Student: M^a Agueda QUINTANILLA GOZALO.
Place: Veterinary Faculty. University of León.
Date of defense: 1995.
Qualifying grade: Excellent.
Directors: Dr. Luis Miguel Ortega Mora y Dr. Francisco A. Rojo Vázquez.
- 8.2.2. Title: "Aspectos epidemiológicos de la infección por *Cryptosporidium parvum* en corderos".
Student: Sebastián MARTÍN GÓMEZ.
Place: Veterinary Faculty. University of León.
Date of defense: 1996.
Qualifying grade: Excellent.
Directors: Dr. Luis Miguel Ortega Mora y Dra. Juana Pereira Bueno.
- 8.2.3. Title: "Seroprevalencia y factores asociados a la infección por *Leptospira* spp. en el ganado bovino".

- Student: Cristina ALONSO ANDICOBERRY.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2000.
Qualifying grade: Excellent.
Director: Dr. Luis Miguel Ortega Mora.
- 8.2.4. Title: "Evaluación de la infección experimental con *Cryptosporidium parvum* en un modelo murino defectivo en el receptor de quimioquinas CCR6".
Student: Isabel BORDES CABRERA.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2002.
Qualifying grade: Excellent.
Directors: Dr. Luis Miguel Ortega Mora y Dr. Gabriel Márquez.
- 8.2.5 Title: "Utilidad de los técnicas serológicas de avidez en el diagnóstico de la neosporosis bovina".
Student: Adriana AGUADO MARTINEZ.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2003.
Qualifying grade: Excellent.
Directors: Dr. Luis Miguel Ortega Mora y Dra. Gema Álvarez García.

8.3 Director for Advanced Study Degree.

- 8.3.1. Title: "Patogenia de la infección por *Neospora caninum*".
Student: Esther COLLANTES FERNÁNDEZ.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2001.
Qualifying grade: Excellent.
Director: Dr. Luis Miguel Ortega Mora.
- 8.3.2. Title: "Modelos de transmisión e impacto económico de la neosporosis bovina".
Student: Francisco J. PÉREZ ZABALLOS.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2001.
Qualifying grade: Excellent.
Director: Dr. Luis Miguel Ortega Mora.
- 8.3.3. Title: "Mecanismos de transformación taquizoíto-bradizoíto en *Neospora caninum*".
Student: Verónica RISCO CASTILLO.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2003.
Qualifying grade: Excellent.
Director: Dr. Luis Miguel Ortega Mora.
- 8.3.4 Title: "Obtención y caracterización patogénica de aislados de *Neospora caninum*".
Student: Adriana AGUADO MARTINEZ.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2005.
Qualifying grade: Excellent.
Director: Dr. Luis Miguel Ortega Mora.
- 8.3.5 Title: "Desarrollo de vacunas frente a la infección por *Neospora caninum*".
Student: Silvia ROJO MONTEJO.
Place: Veterinary Faculty. Complutense University of Madrid.
Date of defense: 2006.
Qualifying grade: Excellent.

Director: Dr. Luis Miguel Ortega Mora.

- 8.3.6 Title: "Caracterización patológica del aislado Nc-1 SAG4+ de *Neospora caninum* que expresa de forma constitutiva la proteína específica de bradizoítos NcSAG4"
Student: Virginia MARUGAN HERNÁNDEZ
Place: Veterinary Faculty, Complutense University of Madrid.
Date of defense: 2007.
Qualifying grade: Excellent.
Director: Dr. Luis Miguel Ortega Mora.

9. Participation in international committees.

- 9.1. Spanish representative of the management committee of the COST-820 action.
Entity upon which depended: Commission of the European Union. European Co-operation in Scientific and Technical Research (COST).
Topic: VACCINES AGAINST ANIMAL COCCIDIOSES (COST-Action 820).
Date: 1995 until 2001.
- 9.2 Title of the Committee: Member of the "Board of Advisors" of the "Coordinator of Investigation and Development of Southamerican Camelids" (CONOPA).
Entity upon which depended: Non Governmental Organization.
Topic: INVESTIGACIÓN Y DESARROLLO DE CAMÉLIDOS SUDAMERICANOS.
Date: from 2001 until present.
- 9.3 Title of the Committee: Spanish representative of the management committee of the COST-854 action.
Entity upon which depended: Commission of the European Union. European Co-operation in Scientific and Technical Research (COST).
Topic: PROTOZOAL REPRODUCTION LOSSES IN FARM RUMINANTS (COST-Action 854).
Date: from 2002 until 2006.
- 9.4 Title of the Committee: Spanish representative of the management committee of the COST-857 action.
Entity upon which depended: Commission of the European Union. European Co-operation in Scientific and Technical Research (COST).
Topic: APICOMPLEXA BIOLOGY IN THE POST-GENOMIC ERA (COST-Action 857).
Date: from 2002 until present.

10. Experience in the organization of R+D activities

(Organization of Scientific-technological Meetings, seminars, workshops, etc.)

- 10.1. Member of the organizing committee
Type of activity: IX Scientific Meeting of Spanish Association of Parasitologists.
Date: León, 1 and 2 October 1992.
- 10.2. Member of the organizing committee.
Type of activity: XI National Scientific Meeting of Spanish Association of Hydatidology.
Date: León, 13 and 14 October 1995.
- 10.3. Member of the organizing committee.
Type of activity: 1998 Annual Workshop and working groups meeting (Acción COST 820).
Date: Toledo, Spain. October, 1998.
- 10.4. Member of the organizing committee.
Type of activity: Joint meeting of Working group 3 (Diagnosis) and 4 (Epidemiology, risk assessment, economics and control), (COST 854 Protozoal reproduction losses in farm ruminants).

Date: Rheinsberg, Germany, 26-28 May 2003.

- 10.5 Title: Member of the organizing committee.
Type of activity: Joint meeting of Working group 2 (Pathogenesis) and 3 (Diagnosis), COST 854 Protozoal reproduction losses in farm ruminants).
Date: Derio, Bilbao, Spain. 17-19 de junio de 2004.
- 10.6 Title: Member of the organizing committee.
Type of activity: Toxo & Food 2006.
Date: Palermo, Italy. 8-10 May 2006.
- 10.7 Title: Member of the organizing committee.
Type of activity: Diagnostic workshop on protozoal abortions in farm ruminants.
Date: Madrid, Spain. 14-16 June 2006.

11. Experience in management of R+D

(Management of R+D programs, plans and actions)

- 11.1 Title: Project Management with Health and Livestock aims, National Institute of Agrarian Research (INIA), Ministry of Science and Technology.
Type of activity: Participant.
Date: 2004.
- 11.2 Title: "Ramón y Cajal" and "Juan de la Cierva" Programs 2004. Ministry of Science and Technology.
Type of activity: Member of Evaluation Committee.
Date: 2004.
- 11.3 Title: National Committee of Animal Origin derivatives for non-human consumption, National Institute of Agrarian and alimentary Research and Technology, Ministry of Education and Science.
Type of activity: Participant in the Group "I+D en tecnología de la transformación and eliminación de residuos".
Date: 2005.
- 11.4 Title: National Program of Agro-alimentary Resources and Technology, Sub-program of Livestock and Acuiculture, General Research Department, Ministry of Education and Science.
Type of activity: Member of the Selection Committee.
Date: Announcement 2006.

12. Other merits and Explanations.

12.1. Courses taught as University Specialist, Postgraduate, Master, and Doctorate.

- 12.1.1 Course: "Riesgos biológicos ambientales". Course included in the "Title of university specialist in Environmental Health" organized by the Experimental Sciences School, Universidad SEK y el Ilmo. Official Association of Segovia's Veterinarians.
Subject: "Waterborne Protozoosis. Intervention measures".
Place and Date: Segovia, October, 2004.
- 12.1.2 Course: "Nuevos avances en Sanidad Animal". Postgraduate course of the Veterinary Medicine Faculty of the University Mayor of San Marcos.
Subject: "Neosporosis bovina: avances en la transmisión y el control".
Place and Date: Lima, Perú, July, 2006.
- 12.1.3 Course: "Alteraciones de la Reproducción en Ganadería".
Course included in the Master of Research in Veterinary Sciences
Place and Date: Madrid, January, 2008.

12.2 Taught Courses organized by Universities and Public Research Entities

- 12.2.1. Course: "Estudio de la fauna salvaje y su control veterinario en Castilla y León" organized by the Illustrious Official Association of Zamora's Veterinarians-I.C.E. University of Leon.
Subject: "Wild boar: principal infectious and parasitic diseases"
Place and Date: Zamora, October-November, 1993.
Number of lecture hours: two.
- 12.2.2. Course: "Reproducción e inseminación artificial del ganado vacuno y ovino" organized by the Veterinary Faculty of the University of Leon and Monteleón Foundation.
Subject: "Pathology of reproduction of parasitic origin".
Place and Date: Veterinary Faculty, University of Leon, November-December, 1993.
Number of lecture hours: one.
- 12.2.3. Course: "XX Curso Internacional de Reproducción animal" organized by INIA.
Subject: "Pathology of reproduction of parasitic and infectious origin in ruminants".
Place and Date: INIA, Madrid. November, 1997.
Number of lecture hours: two.
- 12.2.4. Course: "XXI Curso Internacional de Reproducción animal" organized by INIA.
Subject: "Pathology of reproduction of parasitic and infectious origin in ruminants".
Place and Date: INIA, Madrid. November, 1998.
Number of lecture hours: two.
- 12.2.5. Course: "XXII Curso Internacional de Reproducción animal" organized by INIA.
Subject: "Pathology of reproduction of parasitic and infectious origin in ruminants".
Place and Date: INIA, Madrid. November, 1999.
Number of lecture hours: two.
- 12.2.6. Course: "Microbiología general" organized by "Centro de Formación del Agua", University of Sevilla-EMASESA.
Subject: "New pathogens found in Water".
Place and Date: Sevilla, June, 2002.
Number of lecture hours: two.
- 12.2.7. Course: "Jornadas de formación del laboratorio Central de Veterinaria del Ministerio de Agricultura, Pesca y Alimentación".

Subject: "Health situation of the seal and sealion populations in the area of the Antarctic Peninsula: present and future".

Place and Date: Algete, September, 2006.

- 12.2.8. Course: "II Jornadas de Cooperación al Desarrollo de la UCM".

Subject: "Study of the health impact of the new management systems in the vicuna population of Peru"

Place and Date: Madrid, November, 2006.

- 12.2.9. Course: "Jornadas de Fomento de la Transferencia de Tecnología y del Espíritu Emprendedor en la UCM".

Subject: "Practical cases of technology transfer in biohealth".

Place and Date: Exact Science Faculty, Complutense University of Madrid, 13 November 2007.

- 12.2.10. Course: "XXXI Curso Internacional de reproducción animal".

Subject: "Disease transmission in cattle for artificial reproduction".

Place and Date: Animal Reproduction Dept. and conservation of zoological resources of INIA. 10 November 2008.

12.3 Taught Courses organized by Regional Governments

- 12.3.1. Course: "Las zoonosis de mayor trascendencia en Castilla y León (hidatidosis y brucelosis). Otras zoonosis" organized by the Agriculture and Livestock Regional Ministry, Council of Castilla y León.

Subject: "Zoonoses produced by protozoa".

Place and Date: León, November, 1994.

Number of lecture hours: two.

- 12.3.2. Course: "Jornadas sobre enfermedades del ganado bovino en la Montaña de León" organized by Regional Service of Agriculture and Livestock, Agriculture and Livestock Regional Ministry, Council of Castilla y León.

Subject: "Bovine trichomoniasis"

Place and Date: Riaño, February, 1995.

Number of lecture hours: two.

- 12.3.3. Course: "I Curso de actividades cinegéticas e inspección de piezas de caza" organized by Health Delegation of Guadalajara-Council of Castilla-La Mancha-Illustrious Official Association of Guadalajara's Veterinarians.

Subject: "Practice on sampling, preparation and use of trichinoscope"

Place and Date: Guadalajara, June, 1997.

Number of lecture hours: four.

- 12.3.4. Course: "Actualización en zoonosis" organized by the Illustrious Official Association of Madrid's Veterinarians-Health Public Dept. of Social Services and Health Regional Ministry, Community of Madrid.

Subject: "Emerging zoonoses produced by protozoa"

Place and Date: Madrid, June de 1998.

Number of lecture hours: one.

- 12.3.5. Course: "Zoonosis en Salud Pública Veterinaria" organized by the Conselleria de Sanitat, Generalitat Valenciana-Illustrious Official Association of Valencia's Veterinarians.

Subject: "Zoonoses by protozoa: toxoplasmosis and cryptosporidiosis".

Place and Date: Valencia, October, 1998.

Number of lecture hours: three.

- 12.3.6. Course: "Zoonosis en Salud Pública Veterinaria" organized by the Conselleria de Sanitat, Generalitat Valenciana-Illustrious Official Association of Valencia's Veterinarians.

Subject: "Zoonoses by protozoa: toxoplasmosis and cryptosporidiosis".

Place and Date: Valencia, November-December, 1999.

Number of lecture hours: four.

- 12.3.7. Course: "Epidemiología de los Patógenos emergentes" organized by Health Public Service, Council of Castilla-La Mancha.

Subject: "Waterborne Protozoosis".
Place and Date: Toledo, June, 2005.

- 12.3.8 Course: "Nuevos programas sanitarios desarrollados en el marco de las AD SG" organized by the Regional Ministry of Livestock, Agriculture and Fishing from Regional Government of Cantabria.
Subject: "Control measures for neosporosis".
Place and Date: Santander, November, 2006.
- 12.3.9 Course: "Jornadas de Parasitología" organized by Agrarian Research Center of Mabegondo (La Coruña, Spain), Regional Ministry of Rural environment, Xunta de Galicia.
Subject: "Neosporosis".
Place and Date: La Coruña, November, 2006.
- 12.3.10 VIII Fair: "Madrid in Science"
Subject: "Parasites in marine mammals of the Antarctic", within the thematic area "International Polar Year".
Place and Date: Madrid, 12-15 April 2007.

12.4 Courses taught having been organized by businesses and associations

- 12.4.1. Course: "I Jornada técnica de veterinarios especialistas en ganado ovino y caprino" organized by Mallinckrodt Veterinary-Spanish Society of Ovine and Caprine Technology.
Subject: "Prevalence, presentation and control of cryptosporidiosis and associated processes".
Place and Date: Burgos y Ciudad Real, mayo, 1995.
Number of lecture hours: two.
- 12.4.2. Course: "Gestión veterinaria en explotaciones ganaderas" organized by URCACYL-General Department of Development of MAPA-European Social Fund.
Subject: "Diarrhea in lambs".
Place and Date: Zamora, September, 1995.
Number of lecture hours: two.
- 12.4.3. Course: "Curso de formación en ovinotecnia" organized by COAG-Regional Ministry of Agriculture and Livestock, Council of Castilla y León.
Subject: "Control of ovine parasitic diseases".
Place and Date: Carrión de los Condes, Palencia, March, 1996.
Number of lecture hours: three.
- 12.4.4. Course: "I Curso de ganado ovino y cooperativismo" organized by URCACYL-General Dept. of Development of MAPA-European Social Fund.
Subject: "Abortion produced by parasites in sheep".
Place and Date: Benavente. URCACYL-MAPA and European Social Fund. December 1996.
Number of lecture hours: two.
- 12.4.5. Course: "Jornadas del cerdo" organized by Pfizer, Animal Health.
Subject: "Economic impact of parasites and their diagnosis in practice in industrial swine industry".
Place and Date: Madrid, December, 1998.
Number of lecture hours: one and a half.
- 12.4.6. Course: "Enfermedades de nueva importancia en Sanidad Animal" organized by Derio-Mendikoi-Neiker Agrarian School.
Subject: "Neosporosis and toxoplasmosis".
Dates: Derio, Vizcaya, November-January, 2000-2001.
Number of lecture hours: two.
- 12.4.7. Course: "1^{er} Seminario Pfizer de Reproducción en Vacuno Lechero" organized by Pfizer, Animal Health.
Subject: "Neosporosis and trichomonosis".

Place and Date: Santiago de Compostela, June, 2002.
Number of lecture hours: one and a half.

- 12.4.8. Course: "Enfermedades de ganado bovino".
Subject: "Neosporosis in cattle".
Place and Date: La Caridad, Asturias, October 2002.
Number of lecture hours: two.
- 12.4.9 Course: "Curso de actualización de técnicas de reproducción en bovino extensivo" organized by Pfizer, Animal Health.
Subject: "Neosporosis and trichomonosis". Theoretical and practical classes.
Place and Date: Badajoz, September 2004.
- 12.4.10 Course: "5ª Jornadas de Vacuno" organized by SEARES.
Subject: "Neosporosis in cattle, an emerging disease".
Place and Date: Vegadeo, Asturias, April, 2005 .
- 12.4.11 Course: "I Jornadas de las ADS" organized by SERIVET.
Subject: "Neosporosis in cattle, an emerging disease".
Place and Date: Ribadeo, Lugo, April, 2005.
- 12.4.12 Course: "Teórico práctico de reproducción en bovino"
Subject: "Tritrichomonas foetus and Compylo bacter fetus renerealis: Diagnosis, Economic Losses and Control".
Place and Date: June 2007.
- 12.4.13 Course: "Curso de actualización de técnicas de reproducción en bovino extensivo II" organized by Pfizer, Animal Health.
Subject: "Neosporosis and trichomonosis". Theoretical and practical classes.
Place and Date: June 2007.
- 12.4.14 Course: "*Neospora caninum* y neosporosis en ganado bovino".
Subject: "New advances in disease knowledge".
Place and Date: Animal Health Service, Holland, 16 May 2007.
- 12.4.15 Course: "I Jornadas Bienales de Proteómica".
Subject: "Proteomic".
Place and Date: Sitges, Barcelona, 21-22 February 2008.

12.5 Other Courses taught

- 12.5.1 Course: "Manejo, Control y Vigilancia en la Reserva Nacional de Salinas y Aguada Blanca y la Región de Arequipa" "Socialización de la Investigación en Sanidad de Camélidos Sudamericanos Silvestres" organized by Agriculture Ministry of Peru, CONACS, INRENA y CONOPA.
Subject: "Parasitic diseases in Southamerican camelids"
Place and Date: Arequipa, Perú, July 2006.

12.6. Grants

12.6.1- Grants for stays in Foreign Centers

- 12.6.1.1 Title: Grant for Short Stay in a Foreign Center from the Education and Science Ministry, Infectious Diseases Dept., Health Sciences Center, Stony Brook, Nueva York, USA
Dates: from September 1989 to December 1989.
- 12.6.1.2 Title: Grant for mobility of the Spanish-Brasilian Program for Interuniversity Cooperation, Federal University of

Goiás (Goiania-Brasil) according to Resolutions 5-12-2003 y 21-12-2005 of University Department.
Dates: July 2005 and July 2007.

12.6.2- Grants for Attending Meetings.

- 12.6.2.1 Title: Travel Payment by the University of Leon to attend the Iberian Meeting of Parasitology held in Santiago de Compostela.
Date: June 1995.
- 12.6.2.2 Title: Travel Payment by the Complutense University of Madrid to attend the "20th International Conference of the World Association for the Advancement of Veterinary Parasitology" held in Christchurch, New Zealand.
Date: October 2005.
- 12.6.2.3 Title: Travel Payment by the Spanish Agency for International Cooperation for a stay in Peru in relationship to the project "Impact of the new management systems in the health status of the vicuna".
Date: July 2006.

12.6.3- Grants for organizing Meetings and Scientific Activities.

- 12.6.3.1 Title: Grant (600.000 pts) for organizing the "COST-Action 820 Vaccines against animal coccidiosis, 1998 Annual Workshop" (Complutense University of Madrid).
Date: October, 1998.
- 12.6.3.2 Title: Grant (500.000 pts) for organizing "COST-Action 820 Vaccines against animal coccidiosis, 1998 Annual Workshop" (Secretary of Universities).
Date: October, 1998.
- 12.6.3.3 Title: Grant (7000 €) for organizing the "COST-854: 2006 Diagnostic workshop on protozoal abortions in farm ruminants" (Complutense University of Madrid).
Date: June, 2006.
- 12.6.3.4 Title: Grant (4000 €) for organizing the "COST-854: 2006 Diagnostic workshop on protozoal abortions in farm ruminants" (AGL2006-26034-E/GAN).
Date: June, 2006.

12.7 Awards

- 12.7.1. Extraordinary Award for Degree in Veterinary Studies (Veterinary Faculty of Complutense University of Madrid).
Date: May, 1987.
- 12.7.2 VII Cristóbal de la Puerta Award.
Trabajo "Bovine Neosporosis. New advances in the knowledge of transmission, diagnoses and control."
Date: 7 May 2007.
- 12.7.3 Award Madrid 2007 for the patent (accessit):
Title: Use of the gene NcSAG4 for the diagnosis and prevention of neosporosis and as marker for the analysis of the pathogenesis.
Nº ES: 2263317.
Date: 16 April 2008.

12.8 Participation in the process of Evaluation of National and International Research Projects.

- 12.8.1 Evaluator of the National Agency of Evaluation and Prospective since 1993 for the areas GAN, CGL y BIO.
- 12.8.2 Member of the expert panel proposed by the Complutense University of Madrid for evaluating proposals of the Sixth Framework Program of the European Union.

12.8.3 Member of the Evaluating Committee and Health Development, of the Instituto de Salud Carlos III.

12.9 Reviewer of manuscripts for Scientific Journals

Veterinary Parasitology
Journal of Parasitology
International Journal for Parasitology
Experimental Parasitology
Trends in parasitology
Journal of Veterinary Medicine B
New Zealand Veterinary Journal.
Parasitology.
Antimicrobial Agents and Chemotherapy.
Canadian Veterinary Journal.

12.10 Editorial Member of Scientific Journals

Associate Editor of the Spanish Journal of Agricultural Research.

12.11 Editorial Member of Current Affairs Journals

Scientific Assessor of the Journal *Producción Animal*.

12.12 Academic Activities

Member of the Commission of Works and Spaces of the Animal Health Dept. of the Complutense University of Madrid.
Member of the Research Commission of the Veterinary Faculty of the Complutense University of Madrid.
Member of the Economic Commission of the Animal Health Dept. of the Complutense University of Madrid.
Member of the Animal Facilities Commission of the Animal Health Dept. of the Complutense University of Madrid.
Member of the Stays Commission of the Veterinary Faculty of the Complutense University of Madrid.
Subdirector of the Animal Health Dept. of the Complutense University of Madrid.

12.13 Member of Scientific Societies

Association of Spanish Parasitologists (Spanish Society for Parasitology), from 1987
World Association for The Advancement of Veterinary Parasitology, from 1993.
Sheep Veterinary Society, from 1993.
National Association of Specialists in Bovine Medicine, from 1996.
National Association of Specialists in Laboratory Diagnosis, from 2005.
Member of the European Veterinary Parasitology College, from 2006.